EXHIBIT A

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 1

```
                          10        20        30        40        50        60        70        80        91
SEQ ID NO 1    (1)  (1) CACACGTAGGCTACGAGTGGCCCTCAGCCTGCCCTCATCATGGACCTGTGTTATAATAAATATGTTTAATTGTGCTGTTTTCTTATAGAGGA
SEQ ID NO 11   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  (1) ------------------------------------------------------------------------------------------
Consensus      (1)  (1)
```

Section 2

```
                         100       110       120       130       140       150       160       170       182
SEQ ID NO 1   (92) (92) AAGTCCTGATGTTAGTTGCCTGAAGTCAGACACCCAGAGAGAATCACAGGTTTTCAGATTAATTCATCGCTTGATTCCTTATCCCTGAAGT
SEQ ID NO 11   (1)  (1) -----------------------------------------------------------------------------------------
SEQ ID NO 13   (1)  (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  (1) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  (1) -----------------------------------------------------------------------------------------
Consensus     (92) (92)
```

Section 3

```
                         190       200       210       220       230       240       250       260       273
SEQ ID NO 1  (183)(183) CATATCTCTGGATCTCTCGGTTCTCCACATTATAAATTTCAAGATTCTTTTCTATATGGCCATGTCATTCATATCCTGTGTAATATGGGGA
SEQ ID NO 11   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  (1) ------------------------------------------------------------------------------------------
Consensus    (183)(183)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 4

```
                    280       290       300       310       320       330       340       350       364
SEQ ID NO 1   (274) 274) AACTGAGGTATGAATGACACATCATTCAAAAAAGCACCTGCAATTTTTCTTTGCCAAGCACTTACAGCTTTTTCTCATGTTGCTTTCAAAAAGT
SEQ ID NO 11    (1) --------
SEQ ID NO 13    (1) --------
SEQ ID NO 15    (1) --------
SEQ ID NO 16    (1) --------
SEQ ID NO 17    (1) --------
Consensus     (274)
```

Section 5

```
                    365  370       380       390       400       410       420       430       440       455
SEQ ID NO 1   (365) 365) CATTGAAATATTGTTCACATATTTGCAGATGAGGAAATGAATATTCAAAATGCATTAGGTATCTTGTCCAAGTTCTTACAGCCAGAAAGTA
SEQ ID NO 11    (1) --------
SEQ ID NO 13    (1) --------
SEQ ID NO 15    (1) --------
SEQ ID NO 16    (1) --------
SEQ ID NO 17    (1) --------
Consensus     (365)
```

Section 6

```
                    456  470       480       490       500       510       520       530       546
SEQ ID NO 1   (456) 456) GAGAAATGAATTGAATTACAAATCTTCTACCCTCTTGGCTTATGCTCTTTTCATGACACTGGGAATAAATGTCTGAACAAGCATGACTTCA
SEQ ID NO 11    (1) --------
SEQ ID NO 13    (1) --------
SEQ ID NO 15    (1) --------
SEQ ID NO 16    (1) --------
SEQ ID NO 17    (1) --------
Consensus     (456)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                    560       570       580       590       600       610       620       637
SEQ ID NO 1    (547) 547 TGTTTCAACTACTATTTATCAAATACTTGTTTTCTACTAAGATCTTGCCACTCACTCAGTGGGATCCCCTGAAGCCTGCTGATTATTTGTCCTTT
SEQ ID NO 11     (1) --------------------------------------------------------------------------------------------------
SEQ ID NO 13     (1) --------------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) --------------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) --------------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) --------------------------------------------------------------------------------------------------
Consensus      (547)
```

Section 7

```
                                    650       660       670       680       690       700       710       728
SEQ ID NO 1    (638) 638 GGCATTTATCACTCTCTGTGGGACCTTACTCTCCTATGGTAAAGTTTTATTGTTATTAAAGTATTATTTGACAATAAAGTGTAGAAATCCT
SEQ ID NO 11     (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13     (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) ----------------------------------------------------------------------------------------------
Consensus      (638)
```

Section 8

```
                                    740       750       760       770       780       790       800       819
SEQ ID NO 1    (729) 729 ACAGATCATACTCAACAACAACATGTCTAAGTCTAAATGTCAGCACACACAATGTCTAACAATCATTATGAATACTTTATGTCAAACATAAGCAATAACCTA
SEQ ID NO 11     (1) -----------------------------------------------------------------------------------------------------
SEQ ID NO 13     (1) -----------------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) -----------------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) -----------------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) -----------------------------------------------------------------------------------------------------
Consensus      (729)
```

Section 9

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 10

```
                          820        830        840        850        860        870        880        890        900        910
SEQ ID NO 1    (820) ATTAAGGAAGGTATTTTTAATAAATTGACACTTTTTTGACATAACCATATTTCAAGTGGCTCCATTGTTTTGTTTATTTATTTATTTA
SEQ ID NO 11    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus     (820)
```

Section 11

```
                          911        920        930        940        950        960        970        980        990       1001
SEQ ID NO 1    (911) TTTATTTATTTATTTTTGAGAAAGGGTCTCACTCTGTTGCCCAGACTGGAGTGCAGTGGCAACATCATAGCTCACTACAGCCTCGACCTCT
SEQ ID NO 11    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus     (911)
```

Section 12

```
                         1002       1010       1020       1030       1040       1050       1060       1070       1080       1092
SEQ ID NO 1   (1002) CTGGGCTCAAGCAATCCTCCCATCTCAGCTTCCCAAGTAGCTGGGACTACAGGTGTGACCATCATGCCAGGCTAATTTTCGTATTTTGT
SEQ ID NO 11    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus    (1002)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 13

```
                        1100      1110      1120      1130      1140      1150      1160      1170      1183
              (1093) 1093                                                                                          
SEQ ID NO 1   (1093) 1093 AGAGACGGGGTTTTGCCTGGTCGTCCGGGGTTGGTCTCAAACTCCTGGGTGTTCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTATAGGC
SEQ ID NO 11    (1) ------------------------------------------------------------------------------
SEQ ID NO 13    (1) ------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------
Consensus     (1093)
```

Section 14

```
                        1190      1200      1210      1220      1230      1240      1250      1260      1274
              (1184) 1184                                                                                          
SEQ ID NO 1   (1184) 1184 ATGAGCCTCAAGTGGCTACTTTTTAGGGTTGAAATTTATATTGACTGTCAACTAGCTTCCCTAGTTAGTATTGGGATCGTGCTAACTAATT
SEQ ID NO 11    (1) ------------------------------------------------------------------------------
SEQ ID NO 13    (1) ------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------
Consensus     (1184)
```

Section 15

```
                        1280      1290      1300      1310      1320      1330      1340      1350      1365
              (1275) 1275                                                                                          
SEQ ID NO 1   (1275) 1275 TATATTACCATCCAACTGTCAACATTGTTGAAATATAAACTGTCCCACTTTTTTGTGTGAACATTGAATACACTTTCAGACTAAATTT
SEQ ID NO 11    (1) ------------------------------------------------------------------------------
SEQ ID NO 13    (1) ------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------
Consensus     (1275)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 16

```
                                1380      1390      1400      1410      1420      1430      1440      1456
          (1366) 1366 GGTTTATTACTTAATGTCTTATTCTTTATTAGAGTTAATAAATATTTCTTAATACTTTGCCTTCCACAAATGAATAACTTGTTTGATGGC
SEQ ID NO 1
SEQ ID NO 11      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17      (1) ---------------------------------------------------------------------------------------------
Consensus      (1366)
```

Section 17

```
                                1470      1480      1490      1500      1510      1520      1530      1547
          (1457) 1457 TACCCTCTTTTTTCTCTCTTAGCCTGTCACAGGTATTATGGATAAAAATTAGCACGGCTGGGCAAAAACAATGAAAGAAATACACTTGCCTGG
SEQ ID NO 1
SEQ ID NO 11      (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13      (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15      (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16      (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17      (1) ----------------------------------------------------------------------------------------------
Consensus      (1457)
```

Section 18

```
                                1560      1570      1580      1590      1600      1610      1620      1638
          (1548) 1548 GAAAGCTGGGGAGGGGTAAAATGAATATAATTCAAAATACCATATATTTATTCAACACTGTTGGAATATGTCCTGTTGGAAATGTAAAAG
SEQ ID NO 1
SEQ ID NO 11      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17      (1) ---------------------------------------------------------------------------------------------
Consensus      (1548)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 19

```
                          1650      1660      1670      1680      1690      1700      1710      1729
                (1639) 1639
SEQ ID NO 1     (1639) TGACACATATGTTCTCTTCCTGGGTCTCCAGACTTTTAGGATCTAGTTGAGGGAACTGGACTTATACACAAAATACAATTCAACAACATTATGA
SEQ ID NO 11    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 13    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1)    ------------------------------------------------------------------------------------------
Consensus       (1639)
```

Section 20

```
                          1740      1750      1760      1770      1780      1790      1800      1810      1820
                (1730) 1730
SEQ ID NO 1     (1730) GCTAGAAAATCCATGAGCTAAAGTCTTTGGCAAAGACACATTAGGTAACATGAGGAGTCAGGAGAAATTACTGTGGGCTGGAATGGT
SEQ ID NO 11    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 13    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1)    ------------------------------------------------------------------------------------------
Consensus       (1730)
```

Section 21

```
                          1830      1840      1850      1860      1870      1880      1890      1900      1911
                (1821) 1821
SEQ ID NO 1     (1821) CTGGGAACATGAGATGGGAGGAAGTGGCTTGTTACTGGAGAAAGGATGAGGTTCAAAGAGATGGGAAAAAAGAAAGAGAGGAAAGAAA
SEQ ID NO 11    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 13    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1)    ------------------------------------------------------------------------------------------
Consensus       (1821)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 22

```
                          1912      1920      1930      1940      1950      1960      1970      1980      1990      2002
               (1912) 1912 GAAATGAGGAGGAAAAAACAAGTTGCCAGAAAGAACAAGGAAGAATAGAGGCAGGTAAGCAGTGGATTTTGCCCTAGGGAAGGTAATATAACTAG
SEQ ID NO 1
SEQ ID NO 11   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)   --------------------------------------------------------------------------------------------
Consensus     (1912)
```

Section 23

```
                          2003      2010      2020      2030      2040      2050      2060      2070      2080      2093
SEQ ID NO 1    (2003) 2003 AGACGGCAGTTCTAACAGGCCATGATGAATAAGATACACTTTAGCCCTCATTGGTACGTGCAGAAATTCAAATTTGGAAATTCAAGCTTA
SEQ ID NO 11   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)   --------------------------------------------------------------------------------------------
Consensus     (2003)
```

Section 24

```
                          2094      2100      2110      2120      2130      2140      2150      2160      2170      2184
SEQ ID NO 1    (2094) 2094 CATGACAGTAAAATATATGTTGGGAAAAAAATAACCGGTAAACATTTACATCAGCTCTTTTTCCTAAAGAGAAACCTATTCCATGCTATGAA
SEQ ID NO 11   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)   --------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)   --------------------------------------------------------------------------------------------
Consensus     (2094)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                          Section 25
              2185    2190    2200    2210    2220    2230    2240    2250    2260    2275
SEQ ID NO 1  (2185) ATATTTGTCACAATTCTGTGTTTTCAAAAATACTTGCTCTACTTTTCCAAGCCACAAGAGAGGAAACATTTTCTCTGCCAACACTCTCTGACCTTA
SEQ ID NO 11   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -----------------------------------------------------------------------------------------------
Consensus   (2185)

                                                                                                          Section 26
              2276    2290    2300    2310    2320    2330    2340    2350    2366
SEQ ID NO 1  (2276) ACCAGTTTCTCCACTACGTCTACTCTTAAGCTCTCTTTAGAGCTGTGTGTATCCGTCTTTATGTAAACCTCCTAGATGATATACTTATGG
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (2276)

                                                                                                          Section 27
              2367    2380    2390    2400    2410    2420    2430    2440    2457
SEQ ID NO 1  (2367) AAATATTCAGGCAACTTTTTCATGAACTTTACCAGGAAAGACATTTCTAGCAGGAGAGCATGAATAGAAATGGACTCTTCCCCAGTCTCTG
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (2367)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 28

```
                                    2470      2480      2490      2500      2510      2520      2530      2548
              (2458) 2458
SEQ ID NO 1   (2458) CTGGGTTCTGACTGTGGTCACTCTAACTATAAAAAGTGTGTAAAAATCATGAGCAGATTATTTCATTTCCTTGGGGTCCCTAAAAATTTCA
SEQ ID NO 11    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ---------------------------------------------------------------------------------------------
Consensus     (2458)
```

Section 29

```
                                    2560      2570      2580      2590      2600      2610      2620      2639
              (2549) 2549
SEQ ID NO 1   (2549) AGGTATCTGTATTAGCACAGGAAGATTTAAATTGATTTCTCAACACATTCAGATATCTTATGAACTTTATTAAGATAAATTTCCTCCAGCA
SEQ ID NO 11    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ---------------------------------------------------------------------------------------------
Consensus     (2549)
```

Section 30

```
                                    2650      2660      2670      2680      2690      2700      2710      2720      2730
              (2640) 2640
SEQ ID NO 1   (2640) TTCAGAAACTCATATATTACAGAATAAAATAAAGCAGAAAATTAGTGTACCTGGCTAAAAATGAGAGCAGGGTTCTATTTCATTTTGGA
SEQ ID NO 11    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ---------------------------------------------------------------------------------------------
Consensus     (2640)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                              2731      2740      2750      2760      2770      2780      2790      2800      2810      2821
                                                                                                                    Section 31
SEQ ID NO 1  (2731) 2731 AAGTCACTAAGACAGTAATAATACCATTAATGATAAAATGTTAACCATTAGATGATAAAATGTTAATTATTAGATGTGTTTTTGTATGCCAGCCACATAAATAT 2821
SEQ ID NO 11   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------------------
Consensus  (2731)

                              2822      2830      2840      2850      2860      2870      2880      2890      2900      2912
                                                                                                                    Section 32
SEQ ID NO 1  (2822) 2822 ATACTTTTATATGTATCACCTACATTTCTAGATGTGTAAAATGTGAGGGAATTATAGTAGTATCTCGTATGATTGCTACCTCGTATGATTGCTGGATGATTAAAT 2912
SEQ ID NO 11   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------------------
Consensus  (2822)

                              2913      2920      2930      2940      2950      2960      2970      2980      2990      3003
                                                                                                                    Section 33
SEQ ID NO 1  (2913) 2913 GAGCTGTTGTCTCCAAAAACTTGGTATAGAAAGCAGAAACTTTTAGTTATTAAGATTCTTACTATTCCAATATTTGAATAAAAACAGTGACCT 3003
SEQ ID NO 11   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------------------
Consensus  (2913)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                          Section 34
                      3010      3020      3030      3040      3050      3060      3070      3080      3094
       (3004)  3004  GCTAAGAAACCCCAATAATATTCTGATACACATCAAAAACCTTCTGGCCATTAGAGTGTTTCTAAATCTAACATCTTCATATTAATTTTTTATGTT
SEQ ID NO 1 (3004)  GCTAAGAAACCCCAATAATATTCTGATACACATCAAAAACCTTCTGGCCATTAGAGTGTTTCTAAATCTAACATCTTCATATTAATTTTTTATGTT
SEQ ID NO 11   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  ----------------------------------------------------------------------------------------------
   Consensus (3004)

                                                                                                          Section 35
                      3100      3110      3120      3130      3140      3150      3160      3170      3185
       (3095)  3095  TTGATTATCTACATTCAGTAGTAGTGAAATGTGTTTCTAAACGCTGGATGCATTTTAACTAAATGTGTTTTGTTGTACCACATTTGACAACTTTTG
SEQ ID NO 1 (3095)  TTGATTATCTACATTCAGTAGTAGTGAAATGTGTTTCTAAACGCTGGATGCATTTTAACTAAATGTGTTTTGTTGTACCACATTTGACAACTTTTG
SEQ ID NO 11   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  ----------------------------------------------------------------------------------------------
   Consensus (3095)

                                                                                                          Section 36
                      3200      3210      3220      3230      3240      3250      3260      3276
       (3186)  3186  TTTTAACTATGATTCAGCTTATATAACAAAACAAATGCATCTTCTCCCACTGTTAATAAGGTTAATGAAAAGTTGACTTATGAAAAAA
SEQ ID NO 1 (3186)  TTTTAACTATGATTCAGCTTATATAACAAAACAAATGCATCTTCTCCCACTGTTAATAAGGTTAATGAAAAGTTGACTTATGAAAAAA
SEQ ID NO 11   (1)  -------------------------------------------------------------------------------------
SEQ ID NO 13   (1)  -------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  -------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  -------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  -------------------------------------------------------------------------------------
   Consensus (3186)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 37

		3290 3300 3310 3320 3330 3340 3350 3367
SEQ ID NO 1	(3277) 3277	ATCCTAATTTATGCACATTCTCATTGTTTTCCTTGCTAAGGATATTAGTACTTGACGATTCTGTAACAAAGAATTATCATGGGATGAAACT
SEQ ID NO 11	(1)	---
SEQ ID NO 13	(1)	---
SEQ ID NO 15	(1)	---
SEQ ID NO 16	(1)	---
SEQ ID NO 17	(1)	---
Consensus	(3277)	

Section 38

		3380 3390 3400 3410 3420 3430 3440 3458
SEQ ID NO 1	(3368) 3368	TTGATGCAAATATCTTATCAATACAATGTGCTTGATTTTACCTAGATGAGATTTTCTTTCTTTTTTGAGACAGGGTTTTGCT
SEQ ID NO 11	(1)	--
SEQ ID NO 13	(1)	--
SEQ ID NO 15	(1)	--
SEQ ID NO 16	(1)	--
SEQ ID NO 17	(1)	--
Consensus	(3368)	

Section 39

		3470 3480 3490 3500 3510 3520 3530 3549
SEQ ID NO 1	(3459) 3459	GTGTTACCCAGGCTAGCCTCAAACCCCGGCCCCTCAAAACCCCTGGCCCTCCACCTCTCACCTCTCAAGTGATCCTCCAAAGTGCTGGGTATTACAGATGTG
SEQ ID NO 11	(1)	---
SEQ ID NO 13	(1)	---
SEQ ID NO 15	(1)	---
SEQ ID NO 16	(1)	---
SEQ ID NO 17	(1)	---
Consensus	(3459)	

```
                                                                                              ─Section 40
             3550      3560      3570      3580      3590      3600      3610      3620      3630      3640
SEQ ID NO 1 (3550) AGTCACTGAATCCAGCCCTCACTTAGTTGGCTTTCCTTAGTGAATTATTTTATCTGGTTCTAAAACTTTTTGATAATACTCTCAAATATTTAT
SEQ ID NO 11  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 13  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) --------------------------------------------------------------------------------------------
Consensus  (3550)

                                                                                              ─Section 41
             3641      3650      3660      3670      3680      3690      3700      3710      3720      3731
SEQ ID NO 1 (3641) GGATTTTATAAACATAATTTATGGATTACGTAGTTATGAATTCATAAATGATTTGTGATATTGCCACAGATCATCACCATTATACAGGAT
SEQ ID NO 11  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 13  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) -------------------------------------------------------------------------------------------
Consensus  (3641)

                                                                                              ─Section 42
             3732      3740      3750      3760      3770      3780      3790      3800      3810      3822
SEQ ID NO 1 (3732) GTATAAACATAACCATGGTTTAATATATTTCATAAACTATAGACCAAACAAAGACTGGTCAGGACCAGGGCACGCATGCATTTTATATGTG
SEQ ID NO 11  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 13  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) --------------------------------------------------------------------------------------------
Consensus  (3732)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                      ──Section 43
                      3823       3830      3840      3850      3860      3870      3880      3890      3900      3913
SEQ ID NO 1  (3823) (3823) TGGTGCCTATTGGAATATGCCAGGCCTCCTGTGAAAAAATCAGTAAGTGCTTATCTCATAGGACCAACGGCCCAACATTCCTGAAGTCAC
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (3823)

                                                                                                      ──Section 44
                      3914       3920      3930      3940      3950      3960      3970      3980      3990      4004
SEQ ID NO 1  (3914) (3914) TACCACACTTTGCACTTATCTCCATGTGGAAATAGATAGCCACTGTTGAATTCTGGTGAGAACGACACGTCTGAAATCCTCTCAGCTTCACA
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (3914)

                                                                                                      ──Section 45
                      4005       4010      4020      4030      4040      4050      4060      4070      4080      4095
SEQ ID NO 1  (4005) (4005) ACCCCTATTACACAGCCCCTCAGAGAATCTTCTCACATAGCGCCAAACAACAACTTTAGGAAGTGATGTTCCTAGAATGAATCAATTCTAAAA
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (4005)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 46

```
                      4110      4120      4130      4140      4150      4160      4170      4186
           (4096) 4096
SEQ ID NO 1 (4096) TTAAAAGTGAAAACAATGACAAGGAGGAGAAGGGGAGGGGTCAGAGAGGAAAGGCTGATGTTACTAAAAGACAAAAGACAGTATAACCTCTTATGA
SEQ ID NO 11  (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 13  (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) ------------------------------------------------------------------------------------------------
Consensus  (4096)
```

Section 47

```
                      4200      4210      4220      4230      4240      4250      4260      4277
           (4187) 4187
SEQ ID NO 1 (4187) GGATGGTCCAGACACTCCAGGGAAATGCAGGAAGAAATAAAAGATAGGAGTTTGAACCACACTGTGATGGCTAACTTTATGTGTGGACCCGA
SEQ ID NO 11  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) ---------------------------------------------------------------------------------------------
Consensus  (4187)
```

Section 48

```
                      4290      4300      4310      4320      4330      4340      4350      4368
           (4278) 4278
SEQ ID NO 1 (4278) CCGATCTATGGGACACCCCAGATAGCTTGTAAAGCACTATTTCTCGGGTGCGTCAGTGAGGGTGTTTTTGGAAGAGATCAACACTTGAGTCAG
SEQ ID NO 11  (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13  (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) ----------------------------------------------------------------------------------------------
Consensus  (4278)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                    4380      4390      4400      4410      4420      4430      4440                4459
           (4369) 4369 TAGACTGAGTAAAGCAGATGGTCCTCACCAATGTGGGTGCACATTGTTAATCTGTTGAGTGCCTGGATAGACAAAAAGGCAAAAGAAGG
SEQ ID NO 1 (4369)
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (4369)
```

```
                                    4470      4480      4490      4500      4510      4520      4530      4540     4550
           (4460) 4460 GTGAATTCCCTTTCTCGTCTTAAGCTGGGACAGCCATCCTTTCCTACCCTCAGACATGAGAGGTTTGGATTCTTGGATCTTTGGTCCCAAG
SEQ ID NO 1 (4460)
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (4460)
```

```
                                    4560      4570      4580      4590      4600      4610      4620      4630     4641
           (4551) 4551 GGCTGACACTGGTGGCCACCTCTGGTTTCAGGTCTTTGGCCCCAGATTGTAAGTTACACCATCAGCTTCCTTGGTTCTTGGGCCTTGAGAC
SEQ ID NO 1 (4551)
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (4551)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                    Section 52
                   (4642) 4642    4650      4660      4670      4680      4690      4700      4710      4720      4732
SEQ ID NO 1  (4642) TCAAGCTAAAATACACTACCAGCTTCCCTTGTTCTCTAGTGTAGGGACAGCAAATCATGAAACCTTCTGCCTCCATAATCATATAAGTCAA
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
 Consensus  (4642)
```

```
                                                                                    Section 53
                   (4733) 4733    4740      4750      4760      4770      4780      4790      4800      4810      4823
SEQ ID NO 1  (4733) TTCCCGTAATAAATCTGTGCTTATATATCTATAGCTTCCTTTGTTCTCCAAAGAACCTTAATGTACACACTATATGACCTAAC
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------
 Consensus  (4733)
```

```
                                                                                    Section 54
                   (4824) 4824    4830      4840      4850      4860      4870      4880      4890      4900      4914
SEQ ID NO 1  (4824) CTGTAGTAATGATAACCTTATGCAGGTTTGAATAAGATGATGGTATTCTCCAGTATCTGGGAGGTATGGGCTAGAGTGATGAACCACCGCCA
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
 Consensus  (4824)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 55

```
                      4920      4930      4940      4950      4960      4970      4980      4990    5005
             (4915) 4915
SEQ ID NO 1  (4915) TGAGCCTAGGACTGAGGAGATTTCTGAAATGTGGAATATTTGGTGTCAAAACCAAGAGATAATATAGCCATGTGGAAAAACATGTAGAACTA
SEQ ID NO 11    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus    (4915)
```

Section 56

```
                      5020      5030      5040      5050      5060      5070      5080  5096
             (5006) 5006
SEQ ID NO 1  (5006) TCGTATGATTCAGCAACCCAACCACTGGGAATTTACCCAAAGGAAAACCAGTATATTAAAGAGAATCTGCACTCCCATGGTTATTGC
SEQ ID NO 11    (1) -------------------------------------------------------------------------------------
SEQ ID NO 13    (1) -------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -------------------------------------------------------------------------------------
Consensus    (5006)
```

Section 57

```
                      5110      5120      5130      5140      5150      5160      5170     5187
             (5097) 5097
SEQ ID NO 1  (5097) AGCATTATTCTCAATAGCCTAGATATGGACTCAACCTAGGAGATTAGATGAATGGACAAAGAAAAGTGGCATATGTACACCATGAAATAC
SEQ ID NO 11    (1) ---------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ---------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ---------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ---------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ---------------------------------------------------------------------------------------
Consensus    (5097)
```

Section 58

```
                        5200      5210      5220      5230      5240      5250      5260      5278
             (5188) 5188
SEQ ID NO 1  (5188) TTACCAGCTATAAAAAAGAATTAGCCAAAGCAGTGGTGTGTGCCTGTCATCCCAGCTCCTTGGGAGGCTGAGGTGGGAAGATCTCGAGGCC
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus    (5188)
```

Section 59

```
                        5290      5300      5310      5320      5330      5340      5350      5369
             (5279) 5279
SEQ ID NO 1  (5279) AGAAGTTTGAGACCAGCCTGGGCAAAATAATAAGACTCGGTCTCTAAAACAATTTAAAAAATAGGCCTTCCTTAAAAAAAGAATAAAATCAT
SEQ ID NO 11   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------
Consensus    (5279)
```

Section 60

```
                        5380      5390      5400      5410      5420      5430      5440      5450      5460
             (5370) 5370
SEQ ID NO 1  (5370) GTCATTCACGGCAACATAGATGGGACTGGAGGATATTACTGTTAAGTGAAATTAGCCAGGAACAGCAAGTTAAACCCCACATATTCTGATT
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus    (5370)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

                                                                                                    Section 61
                        5470   5480   5490   5500   5510   5520   5530   5540   5551
SEQ ID NO 1 (5461) 5461 CATATGCGGAAGCTAAAAAAACGTTGATCTCATAGAAGTAAAAAAGTAGAACAGAGGATGCTGGAGACTAGAGAAAAAGGTAGGGAGAAGGAAGG
SEQ ID NO 11   (1) --
SEQ ID NO 13   (1) --
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus (5461)

                                                                                                    Section 62
                        5560   5570   5580   5590   5600   5610   5620   5630   5642
SEQ ID NO 1 (5552) 5552 GAGAGGGAAAAATTTGTTAACAGGTACAAAAAACAAAATTACAGTTAGTTAGGGAGAATTAATTCCAGCATCCTGTAGCACTATAGGATGAC
SEQ ID NO 11   (1) --
SEQ ID NO 13   (1) --
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus (5552)

                                                                                                    Section 63
                        5650   5660   5670   5680   5690   5700   5710   5720   5733
SEQ ID NO 1 (5643) 5643 TATAGTTAATAATAATACTTTAATTAGTCTCAAATAGCTAGAAGGAGGATATTGAATGTTCCCAACACACCAAAAAAATGATAATGTATG
SEQ ID NO 11   (1) --
SEQ ID NO 13   (1) --
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus (5643)

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                    5734      5740      5750      5760      5770      5780      5790      5800      5810      5824
SEQ ID NO 1  (5734) AGATGATGGATATGGTAGTTATCCTGATCCTGATCACTCTACATTATATGTATCAACACATCACTTAGTGTACCCCACAAATATGTAGAATTT
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (5734)

                                                                                                  Section 64

                    5825      5830      5840      5850      5860      5870      5880      5890      5900      5915
SEQ ID NO 1  (5825) TATTTGTCCATTTAAAAAAAGATAACAAATTTAAAAATAAAAACTAAATTAGTGTTCCATGTAAAACCTGGATGAACTGGTCACCCTA
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (5825)

                                                                                                  Section 65

                    5916      5930      5940      5950      5960      5970      5980      5990      6006
SEQ ID NO 1  (5916) CGTCTGCCCATCTAGATGGCTGGTCAAAGTTTCCCAGGCTCCCACATCAAGTTGTTCCACTGCTCACTGGAACTTCCCTAGTCAGGTTGGGC
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (5916)

                                                                                                  Section 66
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                    6007        6020        6030        6040        6050        6060        6070        6080        6097
SEQ ID NO 1    (6007) 6007 AAATAGTAGTAATTTACAGCAAATAGTGAATTTATCACTGACATTTCTTCAGTTCCCCTCTTTGGCATCTGCTTCTTCTTTTCTGTAATGCTGTT
SEQ ID NO 11   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)    ----------------------------------------------------------------------------------------------------
Consensus      (6007)
```

```
                                    6098        6110        6120        6130        6140        6150        6160        6170        6188
SEQ ID NO 1    (6098) 6098 TGTTGAAATGCCCAACATTCTTTTCTTCCCTAGAGCTATTCAGGGGTGACCTTTCTTTTCGCATTTCCCATGCCACTTCCATTATATCAA
SEQ ID NO 11   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)    ----------------------------------------------------------------------------------------------------
Consensus      (6098)
```

```
                                    6189        6200        6210        6220        6230        6240        6250        6260        6279
SEQ ID NO 1    (6189) 6189 AATAAAAACAGTCCTGTGTGGCCACTGCTCATGACCTTGTTTCCTGCCATGTGAAGATAGGATCGGCTGCTCTTTCTCTCCCTCCTTTTTT
SEQ ID NO 11   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)    ----------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)    ----------------------------------------------------------------------------------------------------
Consensus      (6189)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                    Section 70
            6280      6290      6300      6310      6320      6330      6340      6350      6360      6370
SEQ ID NO 1 (6280) (6280) TCAGAGACAGGATCTCTCCCTGTCACCCAGAGACTGGAGTGCAATGGCACAGTCGTAGCTTGCTGCAGCCTCGAACTCCTGGACCTCCTCAGC
SEQ ID NO 11        (1)   ----------------------------------------------------------------------------------------------
SEQ ID NO 13        (1)   ----------------------------------------------------------------------------------------------
SEQ ID NO 15        (1)   ----------------------------------------------------------------------------------------------
SEQ ID NO 16        (1)   ----------------------------------------------------------------------------------------------
SEQ ID NO 17        (1)   ----------------------------------------------------------------------------------------------
Consensus           (6280)

                                                                    Section 71
            6380      6390      6400      6410      6420      6430      6440      6450      6461
SEQ ID NO 1 (6371) (6371) CTCCTGAGTAGCTGGGACTACAGGTGCACACCACCATGCCCTTCCTAATCTGATATATATATTATTATATATAAAATATATAT
SEQ ID NO 11        (1)   ---------------------------------------------------------------------------------
SEQ ID NO 13        (1)   ---------------------------------------------------------------------------------
SEQ ID NO 15        (1)   ---------------------------------------------------------------------------------
SEQ ID NO 16        (1)   ---------------------------------------------------------------------------------
SEQ ID NO 17        (1)   ---------------------------------------------------------------------------------
Consensus           (6371)

                                                                    Section 72
            6470      6480      6490      6500      6510      6520      6530      6540      6552
SEQ ID NO 1 (6462) (6462) ATAAAATATATCATTTTATATATATTATATATAATATATATTTTATATATAATATATATTTATATATAAAAATATATATATTATTATATATATAAAAATA
SEQ ID NO 11        (1)   -------------------------------------------------------------------------------------------------
SEQ ID NO 13        (1)   -------------------------------------------------------------------------------------------------
SEQ ID NO 15        (1)   -------------------------------------------------------------------------------------------------
SEQ ID NO 16        (1)   -------------------------------------------------------------------------------------------------
SEQ ID NO 17        (1)   -------------------------------------------------------------------------------------------------
Consensus           (6462)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 73

```
                              6560      6570      6580      6590      6600      6610      6620      6630      6643
             (6553) 6553 TATATATTATATATATATATATTATTATAGAGAGATGGGGTCTTGCTCTGTCACCCAGGCTGAAGATCAGCTGCTCTTTCTAATCTGTGGTT
SEQ ID NO 1
SEQ ID NO 11    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 13    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -----------------------------------------------------------------------------------------
Consensus    (6553)
```

Section 74

```
                              6650      6660      6670      6680      6690      6700      6710      6720      6734
SEQ ID NO 1  (6644) 6644 AGATAAGATCTGTCTCCCAGGGGATAAAATACTACCTGGAATAAAGGTATCTTTAAAATAATCCCAGAGAGAAAAACATTTTATAGTATG
SEQ ID NO 11    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 13    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -----------------------------------------------------------------------------------------
Consensus    (6644)
```

Section 75

```
                              6740      6750      6760      6770      6780      6790      6800      6810      6825
SEQ ID NO 1  (6735) 6735 ACAGAGGCAGAGAGAAAAACAGAGAATATTTGTTAAGGCAGGACTTTCACCACTCCCAGTACAATCATCTGTCTGTTACCTGCATACCTTACAC
SEQ ID NO 11    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 13    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -----------------------------------------------------------------------------------------
Consensus    (6735)
```

Section 76

```
                                  6826      6840      6850      6860      6870      6880      6890      6900      6916
SEQ ID NO 1  (6826) (6826) GGGCTGGCACTGCTGGGGGGTACAAAGTAGAGATGCCAAACTTCACAATGGTTAGATTCATGTTTAAAAAGCCATTGGATCAAACCTTTGTGAA
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (6826)
```

Section 77

```
                                  6917      6930      6940      6950      6960      6970      6980      6990      7007
SEQ ID NO 1  (6917) (6917) AGTTTCCAGCTTTTTTCTGTTCCAAATATGTGTCCATTATAAAAGAATCTCAAGAGAGCATAATTGCCAAGATAGTCTATGTCCATGAGTATT
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (6917)
```

Section 78

```
                                  7008      7020      7030      7040      7050      7060      7070      7080      7098
SEQ ID NO 1  (7008) (7008) TCAACACATCTCTCATGAAATCTGTTCCCATCATTACTCAAGATATTGTATGAACAGTATTCCACATAAACTAGGTGCTCAATAATGATTGAT
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (7008)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                      7110      7120      7130      7140      7150      7160      7170      7189
                    (7099) 7099                                                                                                 Section 79
SEQ ID NO 1         (7099) TGGCCAATGGGAGGGGTCATTATTTAATGCACTACAAATCTTTTATGCAAGGGGCCCACAGGAATCAGTATGATCCCATAGGAATCCTTTTCTT
SEQ ID NO 11          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 13          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17          (1) ------------------------------------------------------------------------------------------------
Consensus          (7099)

                                                      7200      7210      7220      7230      7240      7250      7260      7270      7280
                    (7190) 7190                                                                                                         Section 80
SEQ ID NO 1         (7190) TTCCATTGAAAAAGAAACAGATAGTGGCTTGTATTAGGTTTCTTGTGTGTGTGTGTGAGGTGGAAAGAAAAATTGATCAGAGC
SEQ ID NO 11          (1) -----------------------------------------------------------------------------------
SEQ ID NO 13          (1) -----------------------------------------------------------------------------------
SEQ ID NO 15          (1) -----------------------------------------------------------------------------------
SEQ ID NO 16          (1) -----------------------------------------------------------------------------------
SEQ ID NO 17          (1) -----------------------------------------------------------------------------------
Consensus          (7190)

                                                      7290      7300      7310      7320      7330      7340      7350      7360      7371
                    (7281) 7281                                                                                                         Section 81
SEQ ID NO 1         (7281) ATAAATCTGAGCCCATGGGATAGGGAAGAATGAGGGGAATAAGGAAGGAAATAGACAGATTATAGACACAGAGAAAAATCAAACCTATTAAAACTGAT
SEQ ID NO 11          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 13          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16          (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17          (1) ------------------------------------------------------------------------------------------------
Consensus          (7281)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 82

```
                     7380      7390      7400      7410      7420      7430      7440      7450    7462
            (7372) 7372 AATTTTCGAATACTAAAAAAATGTACATTCATTTGAACAAAAAGATTCTATAAAGCAAGATTTCTCGTTCTTACCAGCACTACCATGCCCAA
SEQ ID NO 1 (7372)
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (7372)
```

Section 83

```
                     7470      7480      7490      7500      7510      7520      7530      7540    7553
            (7463) 7463 ACTACCTTAGGAAATGAATAGCAGAGTCAAACTTAAAAGCACCTGAAATTTAAAACAAAACCAATTTACATTTTATTTAAGAAAAAGCAAA
SEQ ID NO 1 (7463)
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (7463)
```

Section 84

```
                     7560      7570      7580      7590      7600      7610      7620      7630    7644
            (7554) 7554 CAGATGGGCCTGCTAACAATGTCAAAGTCTCGTTTACAAAGAAAAAACAAATCTGGAACCTGAAGTCAAACGAGTTCAAAATAAAAAGCA
SEQ ID NO 1 (7554)
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------------
Consensus    (7554)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 85

```
                      7645  7650      7660      7670      7680      7690      7700      7710      7720          7735
SEQ ID NO 1   (7645) AACCAATAAACAGAAACCAACATAAACAGAAGTTACTACCATCTCCCCTCAGCCTGTGAAATTCTGGAACTTCTCTTTCTTTCTCGCCTTCT
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (7645)
```

Section 86

```
                      7736      7750      7760      7770      7780      7790      7800      7810          7826
SEQ ID NO 1   (7736) TCTTCTCTCACCTGGAAGACGAGCAGAGTGAACACATCAGGGGTTGTCAGTTCCCCAGATGGCACCACATTCATAAAACCACCGACTCCAGG
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (7736)
```

Section 87

```
                      7827      7840      7850      7860      7870      7880      7890      7900          7917
SEQ ID NO 1   (7827) AGAATGTAGGAAGCTTAGTTAAGGCCAAAGTTCTCTCTTTGGATCTTCCTCATGGGCTTCAAGGCAAAAGAAAAAAGTTTGCTTGAGAATA
SEQ ID NO 11   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus   (7827)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 88

```
                    7930      7940      7950      7960      7970      7980      7990      8008
          (7918) 7918                                                                     
SEQ ID NO 1 (7918) TCTTCATATCTATTAGTTTGAACCATGCAAAATTACAGTTTTTATAGGTAAAATGAGTGCATATTGGCAATTTCAAATGATTAACCCTAAT
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------
Consensus  (7918)
```

Section 89

```
                    8020      8030      8040      8050      8060      8070      8080      8099
          (8009) 8009                                                                     
SEQ ID NO 1 (8009) ACATTATGCTTTTGGGTATAGAAATATTCAGATCTTAAACATATGCTGTTACATACAAAATCAGGTATATTCCTGCTTCTATAATTAAAGC
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------
Consensus  (8009)
```

Section 90

```
                    8110      8120      8130      8140      8150      8160      8170      8180      8190
          (8100) 8100                                                                               
SEQ ID NO 1 (8100) AAAGAGAATTTCTTTGGTCACTACTCCTTCTGACATGAGGTATGAACCAAGTTCAGGACCCCTAAAGGTCTGGGTCTGGGTCATTTCTCC
SEQ ID NO 11    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 13    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------
Consensus  (8100)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 91

```
                    8200      8210      8220      8230      8240      8250      8260      8270      8281
           (8191) 8191
SEQ ID NO 1  (8191) ACCTCTAACTTGTGCCGCTTTCTTGGTCAGTCATTGTGTTCTGAGCTGTCTCATAAAAACATCTGCTATGACTTTACTTTCTCCTGATAGGG
SEQ ID NO11  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO13  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO15  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO16  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO17  (1)  ------------------------------------------------------------------------------------------
Consensus  (8191)
```

Section 92

```
                    8290      8300      8310      8320      8330      8340      8350      8360      8372
           (8282) 8282
SEQ ID NO 1  (8282) TGGCTTTCCATCGTTGGCACTTCGTTGGCCTTATTGGTATGCTTTATACACTGGTTCTCGTTCCAAATTGGCATTATTGGCATTATTGTTATGATT
SEQ ID NO11  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO13  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO15  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO16  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO17  (1)  ------------------------------------------------------------------------------------------
Consensus  (8282)
```

Section 93

```
                    8380      8390      8400      8410      8420      8430      8440      8450      8463
           (8373) 8373
SEQ ID NO 1  (8373) CCTGCTGCTCCTCCCCACATTTCCCATCTTTCTCCCCGATCTCTCCCTCCCCTGTACATTTCTTACATTTCTCCCTTCTCCCATCA
SEQ ID NO11  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO13  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO15  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO16  (1)  ------------------------------------------------------------------------------------------
SEQ ID NO17  (1)  ------------------------------------------------------------------------------------------
Consensus  (8373)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                          Section 94
            8470      8480      8490      8500      8510      8520      8530      8540      8554
(8464) 8464 TCATTGCCCAAGTGTGTCTTCTTCTCTCCTTGTCACATTTCCTTGCCCGCTCTCACATATGCAGAGATGGCTCTTGGTTTTCCTTCTG
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
```

SEQ ID NO 1
SEQ ID NO 11
SEQ ID NO 13
SEQ ID NO 15
SEQ ID NO 16
SEQ ID NO 17
Consensus (8464)

```
                                                                          Section 95
            8560      8570      8580      8590      8600      8610      8620      8630      8645
(8555) 8555 AAATCTCATAGTTTGGAGGTAAACTTGTTAGCAAGGCCACTGAGAAGAGAACAAAAGGGAAACATAAGAGAAACCAAGTCACTATCTCT
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
```

SEQ ID NO 1
SEQ ID NO 11
SEQ ID NO 13
SEQ ID NO 15
SEQ ID NO 16
SEQ ID NO 17
Consensus (8555)

```
                                                                          Section 96
            8660      8670      8680      8690      8700      8710      8720      8736
(8646) 8646 CATTTCCTGGTTTCTAGAAGTAAGACCCAAAGAACTCACTGTTTCAGTGCTTTCAGCTCAGCCAAACTAGGGTGATCAAACTGAGCTTCT
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
   (1) -------------------------------------------------------------------------------------------
```

SEQ ID NO 1
SEQ ID NO 11
SEQ ID NO 13
SEQ ID NO 15
SEQ ID NO 16
SEQ ID NO 17
Consensus (8646)

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 97

```
                              8750      8760      8770      8780      8790      8800      8810           8827
SEQ ID NO 1   (8737) 8737 GAGTGCTGATCAAAACCTATAAAACCAAGTAGACAGACCATCTACAAATCTTCACTGTTAAATACCATAAAGAATGAAAAGGTCACTAATT
SEQ ID NO 11     (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13     (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) ---------------------------------------------------------------------------------------------
Consensus     (8737)
```

Section 98

```
                              8840      8850      8860      8870      8880      8890      8900           8918
SEQ ID NO 1   (8828) 8828 GGTAAGAGACTATATGTGTGATAATTAAATTTATGCATCAACCTGGCTAGGCTAAAGGATGACCAGTGAGCTGGTAAAACATTATTCTGGGTG
SEQ ID NO 11     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 13     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) -----------------------------------------------------------------------------------------------
Consensus     (8828)
```

Section 99

```
                              8930      8940      8950      8960      8970      8980      8990      9000    9009
SEQ ID NO 1   (8919) 8919 TGTCCATAAGAGAGTGTTTTCGGAAGAGATCAGCATTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCCAATAAGGGCAGGCATCATC
SEQ ID NO 11     (1) -----------------------------------------------ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCCAATAAGGGCAGGCATCATC
SEQ ID NO 13     (1) -----------------------------------------------ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCCAATAAGGGCAGGCATCATC
SEQ ID NO 15     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) -----------------------------------------------------------------------------------------------
Consensus     (8919)                                                  ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCCAATAAGGGCAGGCATCATC
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                               9010      9020      9030      9040      9050      9060      9070      9080      9090      9100
                                                                                                                    Section 100
SEQ ID NO 1   (9010) CAATCTGTCGAAAGCTTGAATAAAACAAAAAGAGGAAGGGAAGGGAAAAATTTGCTTCTTTCTTTCTTGATCTAGTATATCATCTTCTCTGCCCTT
SEQ ID NO 11    (60) CAATCTGTCGAAAGCTTGAATAAAACAAAAAGAGGAAGGGAAGGGAAAAATTTGCTTCTTTCTTTCTTGATCTAGTATATCATCTTCTCTGCCCTT
SEQ ID NO 13    (60) CAATCTGTCGAAAGCTTGAATAAAACAAAAAGAGGAAGGGAAGGGAAAAATTTGCTTCTTTCTTTCTTGATCTAGTATATCATCTTCTCTGCCCTT
SEQ ID NO 15     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) -----------------------------------------------------------------------------------------------
Consensus     (9010) CAATCTGTCGAAAGCTTGAATAAAACAAAAAGAGGAAGGGAAGGGAAAAATTTGCTTCTTTCTTTCTTGATCTAGTATATCATCTTCTCTGCCCTT

                               9110      9120      9130      9140      9150      9160      9170      9180      9191
                                                                                                                    Section 101
SEQ ID NO 1   (9101) GGATGTGAGTGGGCCTTCAGACTTAAACCAGGAGTTACACCTTTGGCTTCCCTGGTTCTTCTCAGTTCTTGGACTTGGACTGAATTACACTGC
SEQ ID NO 11   (151) GGATGTGAGTGGGCCTTCAGACTTAAACCAGGAGTTACACCTTTGGCTTCCCTGGTTCTTCTCAGTTCTTGGACTTGGACTGAATTACACTGC
SEQ ID NO 13   (151) GGATGTGAGTGGGCCTTCAGACTTAAACCAGGAGTTACACCTTTGGCTTCCCTGGTTCTTCTCAGTTCTTGGACTTGGACTGAATTACACTGC
SEQ ID NO 15     (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) ---------------------------------------------------------------------------------------------
Consensus     (9101) GGATGTGAGTGGGCCTTCAGACTTAAACCAGGAGTTACACCTTTGGCTTCCCTGGTTCTTCTCAGTTCTTGGACTTGGACTGAATTACACTGC

                               9200      9210      9220      9230      9240      9250      9260      9270      9282
                                                                                                                    Section 102
SEQ ID NO 1   (9192) CAGGTTTCCTGGTTCTCCAGCTTGCAGATGGCAGATCATGGGACTTCTTGGCCTCCATAATTGTGTGAGTCAATTTCCATTTTATTTACAT
SEQ ID NO 11   (242) CAGGTTTCCTGGTTCTCCAGCTTGCAGATGGCAGATCATGGGACTTCTTGGCCTCCATAATTGTGTGAGTCAATTTCCATTTTATTTACAT
SEQ ID NO 13   (242) CAGGTTTCCTGGTTCTCCAGCTTGCAGATGGCAGATCATGGGACTTCTTGGCCTCCATAATTGT-------------------------
SEQ ID NO 15     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) ------------------------------------------------------------------------------------------
Consensus     (9192) CAGGTTTCCTGGTTCTCCAGCTTGCAGATGGCAGATCATGGGACTTCTTGGCCTCCATAATTGT
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

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                                                                                                      Section 103
                      9290      9300      9310      9320      9330      9340      9350      9360      9373
           (9283) 9283 ATCCAGTTATGCATTGCTTAACAATGGAGACAGGTTCTGAGAAATGCATTGTTAAGTGATTTCATCATCATTGTGCAAAACATCATAGAGAGTGTAA 9373
SEQ ID NO 1  (9283) ATCCAGTTATGCATTGCTTAACAATGGAGACAGGTTCTGAGAAATGCATTGTTAAGTGATTTCATCATCATTGTGCAAAACATCATAGAGAGTGTAA
SEQ ID NO 11  (333) ATCCAGTTATGCATTGCTTAACAATGGAGACAGGTTCTGAGAAATGCATTGTTAAGTGATTTCATCATCATTGTGCAAAACATCATAGAGAGTGTAA
SEQ ID NO 13  (306) ------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------
Consensus    (9283)

                                                                                                      Section 104
                      9380      9390      9400      9410      9420      9430      9440      9450      9464
           (9374) 9374 CTACACACAAACCTGGACAGCAGCATAGACTACTACACACATCTAGGCTACACATGGTGTAGCTTGTAACCTCATGATGATAAGTATGTATAACATCATGATA 9464
SEQ ID NO 1  (9374) CTACACACAAACCTGGACAGCAGCATAGACTACTACACACATCTAGGCTACACATGGTGTAGCTTGTAACCTCATGATGATAAGTATGTATAACATCATGATA
SEQ ID NO 11  (424) CTACACACAAACCTGGACAGCAGCATAGACTACTACACACATCTAGGCTACACATGGTGTAGCTTGTAACCTCATGATGATAAGTATGTATAACATCATGATA
SEQ ID NO 13  (306) ------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------
Consensus    (9374)

                                                                                                      Section 105
                      9470      9480      9490      9500      9510      9520      9530      9540      9555
           (9465) 9465 AGTATGTATGTATCTACCATATCTAAAATGTAGAAAAATATGGTATAAATCTTATGGGATCACCATCATATATGCAATCCT 9555
SEQ ID NO 1  (9465) AGTATGTATGTATCTACCATATCTAAAATGTAGAAAAATATGGTATAAATCTTATGGGATCACCATCATATATGCAATCCT
SEQ ID NO 11  (515) AGTATGTATGTATCTACCATATCTAAAATGTAGAAAAATATGGTATAAATCTTATGGGATCACCATCATATATGCAATCCT
SEQ ID NO 13  (306) ------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------
Consensus    (9465)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                          Section 106
              (9556) 9556            9570      9580      9590      9600      9610      9620      9630      9646
SEQ ID NO 1  (9556) TTGTAGACTGAAATGTCATTGTGTAGTGCATGACTGTATACGCACACATACACACACACAAATATACTATTGGTTCTTTTCTCTGA
SEQ ID NO11  (606)  TTGTAGACTGAAATGTCATTGTGTAGTGCATGACTGTATACGCACACATACACACACACAAATATACTATTGGTTCTTTTCTCTGA
SEQ ID NO13  (306)  ------------------------------------------------------------------------------------
SEQ ID NO15  (1)    ------------------------------------------------------------------------------------
SEQ ID NO16  (1)    ------------------------------------------------------------------------------------
SEQ ID NO17  (1)    ------------------------------------------------------------------------------------
Consensus    (9556)

                                                                                                          Section 107
              (9647) 9647            9660      9670      9680      9690      9700      9710      9720      9737
SEQ ID NO 1  (9647) AGAGCCCTAATACAATATGTTATACATTTATATTGACTCTATTTCAAAATTTATGGTTTTGGTGAAACATATGTGGAGATGGGGGCATAGGT
SEQ ID NO11  (697)  AGAGCCCTAATACAATATGTTATACATTTATATTGACTCTATTTCAAAATTTATGGTTTTGGTGAAACATATGTGGAGATGGGGGCATAGGT
SEQ ID NO13  (306)  ------------------------------------------------------------------------------------------
SEQ ID NO15  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO16  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO17  (1)    ------------------------------------------------------------------------------------------
Consensus    (9647)

                                                                                                          Section 108
              (9738) 9738            9750      9760      9770      9780      9790      9800      9810      9828
SEQ ID NO 1  (9738) GTGTGAACTGGGATAGTGTCCTGCTGATGAATGGGTGGGAGGCATCATTTGGGACAAGCCCAGGGCATCAGCTTATAGATATCAAGAGCTC
SEQ ID NO11  (788)  GTGTGAACTGGGATAGTGTCCTGCTGATGAATGGGTGGGAGGCATCATTTGGGACAAGCCCAGGGCATCAGCTTATAGATATCAAGAGCTC
SEQ ID NO13  (306)  ------------------------------------------------------------------------------------------
SEQ ID NO15  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO16  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO17  (1)    ------------------------------------------------------------------------------------------
Consensus    (9738)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 109

```
                            9840      9850      9860      9870      9880      9890      9900       9919
               (9829) 9829                                                                            9919
SEQ ID NO 1    (9829) AACAAGAGAGCACTTTATGGCAAAACCTCCCACAAGACCTCTCAGAAGAGTTGAGAAACTGCTAAAAGTTTCTTTATGACAGATGACATTTATGG
SEQ ID NO 11   (879)  AACAAGAGAGCACTTTATGGCAAAACCTCCCACAAGACCTCTCAGAAGAGTTGAGAAACTGCTAAAAGTTTCTTTATGACAGATGACATTTATGG
SEQ ID NO 13   (306)  ------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)    ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)    ------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)    ------------------------------------------------------------------------------------------------
Consensus      (9829)
```

Section 110

```
                            9930      9940      9950      9960      9970      9980      9990      10000     10010
               (9920) 9920                                                                                     10010
SEQ ID NO 1    (9920) ATAAAATAGGGATTAGCAGGATTCTTTAAATACTTTCGAACACTAACCTTCATTTCTACCAGGCAGTGGGGCCCCAAGTGCAGGGCCATAG
SEQ ID NO 11   (970)  ATAAAATAGGGATTAGCAGGATTCTTTAAATACTTTCGAACACTAACCTTCATTTCTACCAGGCAGTGGGGCCCCAAGTGCAGGGCCATAG
SEQ ID NO 13   (306)  -----------------------------------------------------------------------------------------
SEQ ID NO 15   (1)    -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1)    -----------------------------------------------------------------------------------------
SEQ ID NO 17   (1)    -----------------------------------------------------------------------------------------
Consensus      (9920)
```

Section 111

```
                            10020     10030     10040     10050     10060     10070     10080     10090     10101
               (10011) 10011                                                                                  10101
SEQ ID NO 1    (10011) GAAGTACAAGTCTCGGGAGATACTAGGCTGCACTGTCTCTGTAGAGAATCTGAAAAAATAATAGAGTCACTGAAAATGCAGTTTGGTATAATTAT
SEQ ID NO 11   (1061)  GAAGTACAAGTCTCGGGAGATACTAGGCTGCACTGTCTCTGTAGAGAATCTGAAAAAATAATAGAGTCACTGAAAATGCAGTTTGGTATAATTAT
SEQ ID NO 13   (306)   -------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)     -------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)     -------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)     -------------------------------------------------------------------------------------------------
Consensus      (10011)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 112

```
                     10102      10110      10120      10130      10140      10150      10160      10170      10180      10192
         (10102) 10102 TGCCATGCATCATCAAATTCTAAATCATACTAGTGGTCAAATACTCTTCCCTGAAAAAACATTTTCTTGGTTTGAATTCTAAATAATTGTTGT
SEQ ID NO 1(10102) TGCCATGCATCATCAAATTCTAAATCATACTAGTGGTCAAATACTCTTCCCTGAAAAAACATTTTCTTGGTTTGAATTCTAAATAATTGTTGT
SEQ ID NO 11(1152) TGCCATGCATCATCAAATTCTAAATCATACTAGTGGTCAAATACTCTTCCCTGAAAAAACATTTTCTTGGTTTGAATTCTAAATAATTGTTGT
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------------------------------
     Consensus(10102)
```

Section 113

```
                     10193      10200      10210      10220      10230      10240      10250      10260      10270      10283
         (10193) 10193 GGTCACCACTGAGCTTTTAAATATATAAATACTTTCAAGTTTGCATATTTTTATTACCTGTTCCTTAACAAACATTGAATTCAACATGAAA
SEQ ID NO 1(10193) GGTCACCACTGAGCTTTTAAATATATAAATACTTTCAAGTTTGCATATTTTTATTACCTGTTCCTTAACAAACATTGAATTCAACATGAAA
SEQ ID NO 11(1243) GGTCACCACTGAGCTTTTAAATATATAAATACTTTCAAGTTTGCATATTTTTATTACCTGTTCCTTAACAAACATTGAATTCAACATGAAA
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------------------------------
     Consensus(10193)
```

Section 114

```
                     10284      10290      10300      10310      10320      10330      10340      10350      10360      10374
         (10284) 10284 ATGATTATGGGAAACATTCGGGTATACAGTCCCTGACTCTTAAGGACTCAGTAAATACTTAGGGTATTCATGGCCCCTAGTCTTTGGGGT
SEQ ID NO 1(10284) ATGATTATGGGAAACATTCGGGTATACAGTCCCTGACTCTTAAGGACTCAGTAAATACTTAGGGTATTCATGGCCCCTAGTCTTTGGGGT
SEQ ID NO 11(1334) ATGATTATGGGAAACATTCGGGTATACAGTCCCTGACTCTTAAGGACTCAGTAAATACTTAGGGTATTCATGGCCCCTAGTCTTTGGGGT
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------------------------------
     Consensus(10284)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                          10375  10380      10390      10400      10410      10420      10430      10440      10450           10465
               (10375) 10375 ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
SEQ ID NO 1(10375) ACCACATGTTTCTTCTTCTTCAAATCACAGATTCACAGAATGATAACACAGTGATTGTGTAGACAAAATAAGTGAACCAAAAATTGCTTG
SEQ ID NO 11(1425) ACCACATGTTTCTTCTTCTTCAAATCACAGATTCACAGAATGATAACACAGTGATTGTGTAGACAAAATAAGTGAACCAAAAATTGCTTG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(10375)
```

Section 116

```
                          10466      10480      10490      10500      10510      10520      10530      10540           10556
               (10466) 10466 |....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
SEQ ID NO 1(10466) CTTCTGTCATTCTATGGAACCACTGAGAGTTTTTACTTGTGCTTAAAATTTGAATAGTAAAACAGAGTGTCAACTTCATGCTGGAATATT
SEQ ID NO 11(1516) CTTCTGTCATTCTATGGAACCACTGAGAGTTTTTACTTGTGCTTAAAATTTGAATAGTAAAACAGAGTGTCAACTTCATGCTGGAATATT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(10466)
```

Section 117

```
                          10557      10570      10580      10590      10600      10610      10620      10630           10647
               (10557) 10557 |....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
SEQ ID NO 1(10557) TTTGGCTTTTTAGACACAATTTTAAGTACATGAAGTATTTTACAAGACTAAGTAACATCACTGAAATTACACAGCTTTCTTCTTTTTAAAAC
SEQ ID NO 11(1607) TTTGGCTTTTTAGACACAATTTTAAGTACATGAAGTATTTTACAAGACTAAGTAACATCACTGAAATTACACAGCTTTCTTCTTTTTAAAAC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(10557)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                    Section 118
                    10660      10670      10680      10690      10700      10710      10720      10738
         (10648) 10648
SEQ ID NO 1(10648) TGGTATTTGTTATAAAACTAAAGAGAGCGAATCAAGAGAAAAAGCATAATTATTACTGATTATTATTACAGGA
SEQ ID NO 11 (1698) TGGTATTTGTTATAAAACTAAAGAGAGCGAATCAAGAGAAAAAGCATAATTATTACTGATTATTATTACAGGA
SEQ ID NO 13  (306) ------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------
   Consensus(10648)

                                                                                                    Section 119
                    10750      10760      10770      10780      10790      10800      10810      10829
         (10739) 10739
SEQ ID NO 1(10739) ATAGAGGAGGAGGAGTTAACAAATGATCCACTCTGGGTGTTGAAAACACCAATAAGCCTGCTTCCAGGAAGTGCCTAAGAGACAGAGCTGGC
SEQ ID NO 11 (1789) ATAGAGGAGGAGGAGTTAACAAATGATCCACTCTGGGTGTTGAAAACACCAATAAGCCTGCTTCCAGGAAGTGCCTAAGAGACAGAGCTGGC
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
   Consensus(10739)

                                                                                                    Section 120
                    10840      10850      10860      10870      10880      10890      10900      10910      10920
         (10830) 10830
SEQ ID NO 1(10830) TCAGCTTGCTGGGTCACAGCATGTAAGGAAACTGCTGGGCTACATGCCACCATCCTCAGTTGTCCAGATAGATAATCCCATAGCCCCATGG
SEQ ID NO 11 (1880) TCAGCTTGCTGGGTCACAGCATGTAAGGAAACTGCTGGGCTACATGCCACCATCCTCAGTTGTCCAGATAGATAATCCCATAGCCCCATGG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
   Consensus(10830)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                          Section 121
              (10921) 10921     10930     10940     10950     10960     10970     10980     10990     11000     11011
SEQ ID NO 1(10921) GGAAATAAATCTTTAATTATGATATAGCTGACACCACCATTCAAAGCACTATGCTAAGTCCTTTATGTGAATTAACTTTTGTCAAATTTATTTT
SEQ ID NO 11 (1971) GGAAATAAATCTTTAATTATGATATAGCTGACACCACCATTCAAAGCACTATGCTAAGTCCTTTATGTGAATTAACTTTTGTCAAATTTATTTT
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------------
Consensus(10921)

                                                                                          Section 122
              (11012) 11012     11020     11030     11040     11050     11060     11070     11080     11090     11102
SEQ ID NO 1(11012) CATAAATAACCCAAATATGTATACCACTATTATCCTACCTTAAAGAGGAGAAACTGAGCTCCTAAAGTTTAAATATCTAACCCAAGTTAAG
SEQ ID NO 11 (2062) CATAAATAACCCAAATATGTATACCACTATTATCCTACCTTAAAGAGGAGAAACTGAGCTCCTAAAGTTTAAATATCTAACCCAAGTTAAG
SEQ ID NO 13  (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -----------------------------------------------------------------------------------------------
Consensus(11012)

                                                                                          Section 123
              (11103) 11103     11110     11120     11130     11140     11150     11160     11170     11180     11193
SEQ ID NO 1(11103) ACTGCTAGTCACCCTAGGCTATTAACTCAGGCAGTCTAACTCAGGTATAATAACATTATGCTACTGTTTGCAGCTTTGACTATGCCTGAAT
SEQ ID NO 11 (2153) ACTGCTAGTCACCCTAGGCTATTAACTCAGGCAGTCTAACTCAGGTATAATAACATTATGCTACTGTTTGCAGCTTTGACTATGCCTGAAT
SEQ ID NO 13  (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -----------------------------------------------------------------------------------------------
Consensus(11103)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                         11200      11210      11220      11230      11240      11250      11260      11270
              (11194) 11194                                                                                                          11284
SEQ ID NO 1(11194) TATAACGTCATGCTATCTCAACTAAACTAAAAAGCTAAGGGAAAATAAAATGAGCCATAGGGCTCAATTTCATAAAAGGAGAGAAAATACTGGGGAAA
SEQ ID NO 11 (2244) TATAACGTCATGCTATCTCAACTAAACTAAAAAGCTAAGGGAAAATAAAATGAGCCATAGGGCTCAATTTCATAAAAGGAGAGAAAATACTGGGGAAA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) --------------------------------------------------------------------------------------------------------
     Consensus(11194)
                                                                                                               Section 124

                         11290      11300      11310      11320      11330      11340      11350      11360
              (11285) 11285                                                                                                          11375
SEQ ID NO 1(11285) AGTGATAATGCAGAGTTTAAAATATTTTGTAAAAGTGCCAGAGATTGAGTATAACAAGTGTGACCAAAAAAAAAAAAAAAAAAAAAAG
SEQ ID NO 11 (2335) AGTGATAATGCAGAGTTTAAAATATTTTGTAAAAGTGCCAGAGATTGAGTATAACAAGTGTGACCAAAAAAAAAAAAAAAAAAAAAAG
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------
SEQ ID NO 17    (1) --------------------------------------------------------------------------------------
     Consensus(11285)
                                                                                                               Section 125

                         11390      11400      11410      11420      11430      11440      11450
              (11376) 11376                                                                                                          11466
SEQ ID NO 1(11376) GAAGAAGGTAAAAAAGAGGGAGGTCTGAGAAATAGAAATATCAGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATT
SEQ ID NO 11 (2426) GAAGAAGGTAAAAAAGAGGGAGGTCTGAGAAATAGAAATATCAGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATT
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------
SEQ ID NO 17    (1) --------------------------------------------------------------------------------------
     Consensus(11376)
                                                                                                               Section 126
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 127

```
                                11480      11490      11500      11510      11520      11530      11540
                 (11467) 11467                                                                             11557
SEQ ID NO 1(11467) CAGATTCCACAGATTCCACAAATCACACATTTCTTTTTTTTACCAACTAAGGAAAAATAACACTTGACCTAACATTTCATTGCAGTTAGCTAAA
SEQ ID NO 11 (2517) CAGATTCCACAGATTCCACAAATCACACATTTCTTTTTTTTACCAACTAAGGAAAAATAACACTTGACCTAACATTTCATTGCAGTTAGCTAAA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) --------------------------------------------------------------------------------------------
       Consensus(11467)
```

Section 128

```
                                11570      11580      11590      11600      11610      11620      11630
                 (11558) 11558                                                                             11648
SEQ ID NO 1(11558) GGATGCTAGAAAAACTATGTTGCAGTGGTTTGCTCAGTGGTTTGCTCTAATTTCTTCAGGAATAGAGAAAAGTGACAAAAAGATCAGAGAAGAAGAGAGAAAGGA
SEQ ID NO 11 (2608) GGATGCTAGAAAAACTATGTTGCAGTGGTTTGCTCAGTGGTTTGCTCTAATTTCTTCAGGAATAGAGAAAAGTGACAAAAAGATCAGAGAAGAAGAGAGAAAGGA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) --------------------------------------------------------------------------------------------------------
       Consensus(11558)
```

Section 129

```
                                11660      11670      11680      11690      11700      11710      11720
                 (11649) 11649                                                                             11739
SEQ ID NO 1(11649) AACTATCAGAAAAATACAGAATTGGAGTAGGATATAACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACT
SEQ ID NO 11 (2699) AACTATCAGAAAAATACAGAATTGGAGTAGGATATAACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACT
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -------------------------------------------------------------------------------------------
       Consensus(11649)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                          Section 130
              11740         11750         11760         11770         11780         11790         11800         11810         11820    11830
         (11740) 11740)
SEQ ID NO 1(11740) TCAGTTTGGTCCCTGGAACAGCAGCATCAGCAGCAGAATCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGGTCCCATCCCAGACTCACTGAATC
SEQ ID NO 11 (2790) TCAGTTTGGTCCCTGGAACAGCAGCATCAGCAGCAGAATCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGGTCCCATCCCAGACTCACTGAATC
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------------
   Consensus(11740)


                                                                                                          Section 131
              11831         11840         11850         11860         11870         11880         11890         11900         11910    11921
         (11831) 11831)
SEQ ID NO 1(11831) AGAATATAAATACTGACAAGATGCCCCGGGATTCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGTGATTGTTTCTGCAACT
SEQ ID NO 11 (2881) AGAATATAAATACTGACAAGATGCCCCGGGATTCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGTGATTGTTTCTGCAACT
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------------
   Consensus(11831)


                                                                                                          Section 132
              11922         11930         11940         11950         11960         11970         11980         11990         12000    12012
         (11922) 11922)
SEQ ID NO 1(11922) TAGTATTTCTGAGTTTCCCAAGGAAGAAAAACCCAGGCCTTAGCTTCTGGCAGACTTGTGTTTCTCCTTACTTACTAGCTGCATGACTCA
SEQ ID NO 11 (2972) TAGTATTTCTGAGTTTCCCAAGGAAGAAAAACCCAGGCCTTAGCTTCTGGCAGACTTGTGTTTCTCCTTACTTACTAGCTGCATGACTCA
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------------
   Consensus(11922)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

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                                                  12020      12030      12040      12050      12060      12070      12080      12090      12103
               (12013) 12013                                                                                                              Section 133
SEQ ID NO 1(12013) TGAGCAAGGAAATCAAACTTTATGTGCCTGAGTTCCTCATCTATAAAATGGAGACTATAATAATAATCATCTCCTAGGCTTGTTTGTTTGAGGATG
SEQ ID NO 11 (3063) TGAGCAAGGAAATCAAACTTTATGTGCCTGAGTTCCTCATCTATAAAATGGAGACTATAATAATAATCATCTCCTAGGCTTGTTTGTTTGAGGATG
SEQ ID NO 13  (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -------------------------------------------------------------------------------------------ATG
        Consensus(12013)                                                                                                              ATG

                                                  12110      12120      12130      12140      12150      12160      12170      12180      12194
               (12104) 12104                                                                                                              Section 134
SEQ ID NO 1(12104) TTCAACAAATGCTCCTTTCATTCCTCTATTTACAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACT
SEQ ID NO 11 (3154) TTCAACAAATGCTCCTTTCATTCCTCTATTTACAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACT
SEQ ID NO 13  (306) -----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17    (4) TTCAACAAATGCTCCTTTCATTCCTCTATTTACAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACT
        Consensus(12104) TTCAACAAATGCTCCTTTCATTCCTCTATTTACAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACT

                                                  12200      12210      12220      12230      12240      12250      12260      12270      12285
               (12195) 12195                                                                                                              Section 135
SEQ ID NO 1(12195) TAGTAATTGAGTGTGATCTGGAGACTAACTCTGAAATAAATAAGCTGATTATTTATTTCTCAAAACAACAGAATACGATTTAGCAA
SEQ ID NO 11 (3245) TAGTAATTGAGTGTGATCTGGAGACTAACTCTGAAATAAATAAGCTGATTATTTATTTCTCAAAACAACAGAATACGATTTAGCAA
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------
SEQ ID NO 17   (95) TAGTAATTGAGTGTGATCTGGAGACTAACTCTGAAATAAATAAGCTGATTATTTATTTCTCAAAACAACAGAATACGATTTAGCAA
        Consensus(12195) TAGTAATTGAGTGTGATCTGGAGACTAACTCTGAAATAAATAAGCTGATTATTTATTTCTCAAAACAACAGAATACGATTTAGCAA
```

Section 136

```
                    12300      12310      12320      12330      12340      12350      12360      12376
          (12286) 12286
SEQ ID NO 1(12286) ATTACTTCTTAAGATATATTTACATTTCTATATTCCTACCCTGAGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATA
SEQ ID NO 11 (3336) ATTACTTCTTAAGATATATTTACATTTCTATATTCCTACCCTGAGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATA
SEQ ID NO 13  (306) ---------------------------------------------------------------------------------
SEQ ID NO 15    (1) ---------------------------------------------------------------------------------
SEQ ID NO 16    (1) ---------------------------------------------------------------------------------
SEQ ID NO 17  (186) ATTACTTCTTAAGATATATTTACATTTCTATATTCCTACCCTGAGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATA
Consensus(12286) ATTACTTCTTAAGATATATTTACATTTCTATATTCCTACCCTGAGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATA
```

Section 137

```
                    12390      12400      12410      12420      12430      12440      12450      12467
          (12377) 12377
SEQ ID NO 1(12377) CATTATGGACAGGTAAGGTAAGTAAAAAAACATATTATTCTACGTTTTATTCTCCAAAAATTTTAAATTTCAACTGTTGCGTTGCGTGTGTTGGTAAT
SEQ ID NO 11 (3427) CATTATGGACAGGTAAGGTAAGTAAAAAAACATATTATTCTACGTTTTATTCTCCAAAAATTTTAAATTTCAACTGTTGCGTTGCGTGTGTTGGTAAT
SEQ ID NO 13  (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17  (277) CATTATGGACAGGTAAGGTAAGTAAAAAAACATATTATTCTACGTTTTTTGTCCAAAAATTTTAAATTTCAACTGTTGCGTTGCGTGTGTTGGTAA-
Consensus(12377) CATTATGGACAGGTAAGGTAAGTAAAAAAACATATTATTCTACGTTTTATTCTCCAAAAATTTTAAATTTCAACTGTTGCGTTGCGTGTGTTGGTAA
```

Section 138

```
                    12480      12490      12500      12510      12520      12530      12540      12558
          (12468) 12468
SEQ ID NO 1(12468) GTAAAACAAACTCAGTACAGTAGTATTCAGTACAGTATTTAAGCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAG
SEQ ID NO 11 (3518) GTAAAACAAACTCAGTACAGTAGTATTCAGTACAGTATTTAAGCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAG
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------
Consensus(12468)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

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                                                                                                                    Section 139
                   12559           12570      12580      12590      12600      12610      12620      12630      12649
          (12559) 12559
SEQ ID NO 1(12559) CAAATTTGTGTGAGATATCGTAGATGGAAGTAAATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACCTCTGTGTGTATG
SEQ ID NO 11 (3609) CAAATTTGTGTGAGATATCGTAGATGGAAGTAAATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACCTCTGTGTGTATG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(12559)

                                                                                                                    Section 140
                   12650           12660      12670      12680      12690      12700      12710      12720      12740
          (12650) 12650
SEQ ID NO 1(12650) TGTGTGTGTGACAGAGTGTGTGTGAGAGAGAGAGAGACAGAGAGATGCCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAG
SEQ ID NO 11 (3700) TGTGTGTGTGACAGAGTGTGTGTGAGAGAGAGAGAGACAGAGAGATGCCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(12650)

                                                                                                                    Section 141
                   12741           12750      12760      12770      12780      12790      12800      12810      12820      12831
          (12741) 12741
SEQ ID NO 1(12741) TTTTCTAAAGAAAATGAGATCATAACAAAAGCCCTCTTTATGACTATCTTTATGACTATCTTTATGACTATCTTTATCAGGGGCAAAAGGAAAGAGAGACAAAACAGCATGAAAT
SEQ ID NO 11 (3791) TTTTCTAAAGAAAATGAGATCATAACAAAAGCCCTCTTTATGACTATCTTTATCAGGGGCAAAAGGAAAGAGAGACAAAACAGCATGAAAT
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------GGGCAAAAGGAAAGAGAGACAAAACAGCATGAAAT
SEQ ID NO 16    (1) ------------------------------------------GGGCAAAAGGAAAGAGAGACAAAACAGCATGAAAT
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(12741)                                             GGGCAAAAGGAAAGAGAGACAAAACAGCATGAAAT
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 142

12832   12840   12850   12860   12870   12880   12890   12900   12910   12922

               (12832) 12832
SEQ ID NO 1(12832) GATGAGAGACCAAGTGATGAATGAAAATTCATTCACCAATGATTCCTTCAAGAGTAATTGCTTTCAAGAGTAATTGCTTTCAAGAGTAATTCAGCAGCCTGTTACTATGGCTCTC
SEQ ID NO 11(3882) GATGAGAGACCAAGTGATGAATGAAAATTCATTCACCAATGATTCCTTCAAGAGTAATTGCTTTCAAGAGTAATTGCTTTCAAGAGTAATTCAGCAGCCTGTTACTATGGCTCTC
SEQ ID NO 13 (306) ------------
SEQ ID NO 15 (35) GATGAGAGACCAAGTGATGAATGAAAATTCATTCACCAATGATTCCTTCAAGAGTAATTGCTTTCAAGAGTAATTCAGCAGCCTGTTACTATGGCTCTC
SEQ ID NO 16   (1) ------------
SEQ ID NO 17 (367) ------------
Consensus(12832) GATGAGAGACCAAGTGATGAATGAAAATTCATTCACCAATGATTGCTTTCAAGAGTAATTCAGCAGCCTGTTACTATGGCTCTC

Section 143

12923   12930   12940   12950   12960   12970   12980   12990   13000   13013

               (12923) 12923
SEQ ID NO 1(12923) TGGAGTGATAGCTAATGTAAATGAAGCCTCTAAAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAA
SEQ ID NO 11(3973) TGGAGTGATAGCTAATGTAAATGAAGCCTCTAAAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAA
SEQ ID NO 13 (306) ------------
SEQ ID NO 15 (126) TGGAGTGATAGCTAATGTAAATGAAGCCTCTAAAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAA
SEQ ID NO 16   (1) ------------
SEQ ID NO 17 (367) ------------
Consensus(12923) TGGAGTGATAGCTAATGTAAATGAAGCCTCTAAAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAA

Section 144

13014   13020   13030   13040   13050   13060   13070   13080   13090   13104

               (13014) 13014
SEQ ID NO 1(13014) AGCATTCGGGAAAAATTCAAAAGAATAAAATATTCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCA
SEQ ID NO 11(4064) AGCATTCGGGAAAAATTCAAAAGAATAAAATATTCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCA
SEQ ID NO 13 (306) ------------
SEQ ID NO 15 (217) AGCATTCGGGAAAAATTCAAAAGAATAAAATATTCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCA
SEQ ID NO 16   (1) ------------
SEQ ID NO 17 (367) ------------
Consensus(13014) AGCATTCGGGAAAAATTCAAAAGAATAAAATATTCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCA

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 145

```
                          13110     13120     13130     13140     13150     13160     13170     13180     13195
              (13105) 13105
SEQ ID NO 1  (13105) GCAAGCACCTTAAAAATATCCAGCCAGGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTTGGTCCCAGGGACTCAGATTCTAAG  13195
SEQ ID NO 11 (4155)  GCAAGCACCTTAAAAATATCCAGCCAGGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTTGGTCCCAGGGACTCAGATTCTAAG
SEQ ID NO 13 (306)   --------------------------------------------------------------------------------------------
SEQ ID NO 15 (308)   GCAAGCACCTTAAAAATATCCAGCCAGGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTTGGTCCCAGGGACTCAGATTCTAAG
SEQ ID NO 16 (1)     --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)   --------------------------------------------------------------------------------------------
Consensus (13105)    GCAAGCACCTTAAAAATATCCAGCCAGGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTTGGTCCCAGGGACTCAGATTCTAAG
```

Section 146

```
                          13210     13220     13230     13240     13250     13260     13270     13286
              (13196) 13196
SEQ ID NO 1  (13196) CCAAATTCTTTGAATGATCTTGGCAAATGTCTCGAATTATTTTTGCCAACTTTCTTTATCTTGGAAAAAAAGTTTCATGAATGGGTGTCA   13286
SEQ ID NO 11 (4246)  CCAAATTCTTTGAATGATCTTGGCAAATGTCTCGAATTATTTTTGCCAACTTTCTTTATCTTGGAAAAAAAGTTTCATGAATGGGTGTCA
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------
SEQ ID NO 15 (399)   CCAAATTCTTTGAATGATCTTGGCAAATGTCTCGAATTATTTTTGCCAACTTTCTTTATCTTGGAAAAAAAGTTTCATGAATGGGTGTCA
SEQ ID NO 16 (1)     ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)   ------------------------------------------------------------------------------------------
Consensus (13196)    CCAAATTCTTTGAATGATCTTGGCAAATGTCTCGAATTATTTTTGCCAACTTTCTTTATCTTGGAAAAAAAGTTTCATGAATGGGTGTCA
```

Section 147

```
                          13300     13310     13320     13330     13340     13350     13360     13377
              (13287) 13287
SEQ ID NO 1  (13287) AAATTGATTAGTTTTAAAAACCTTTCTTGCAGATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAAGTAAGTACTCTGTAGTGTGAAAA  13377
SEQ ID NO 11 (4337)  AAATTGATTAGTTTTAAAAACCTTTCTTGCAGATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAAGTAAGTACTCTGTAGTGTGAAAA
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------
SEQ ID NO 15 (490)   AAATTGATTAGTTTTAAAAACCTTTCTTGCAGATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAA-------------------------
SEQ ID NO 16 (1)     ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)   ------------------------------------------------------------------------------------------
Consensus (13287)    AAATTGATTAGTTTTAAAAACCTTTCTTGCAGATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAA
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                        13378                  13390      13400      13410      13420      13430      13440      13450      13468
             (13378) 13378
SEQ ID NO 1(13378) ATTCTTAAAGGACACCCTCTTTTACAAACTCACAAAAAACAGCCTTTGGAATACCCACATGAAGTAGCTGTGTTATTGCTTTCTATATACC
SEQ ID NO 11 (4428) ATTCTTAAAGGACACCCTCTTTTACAAACTCACAAAAAACAGCCTTTGGAATACCCACATGAAGTAGCTGTGTTATTGCTTTCTATATACC
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(13378)
```

```
                        13469                  13480      13490      13500      13510      13520      13530      13540      13559
             (13469) 13469
SEQ ID NO 1(13469) TACATCTTGTCTATTATAAAAAGACTGGTTTTTGGCAGGTGTGGCTCACACCTGTAATTCCAGCACTTTGGGAGGCCAAGGCGGGCGG
SEQ ID NO 11 (4519) TACATCTTGTCTATTATAAAAAGACTGGTTTTTGGCAGGTGTGGCTCACACCTGTAATTCCAGCACTTTGGGAGGCCAAGGCGGGCGG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(13469)
```

```
                        13560                  13570      13580      13590      13600      13610      13620      13630      13640      13650
             (13560) 13560
SEQ ID NO 1(13560) ATCACCCTGAGATCAGGAGTTCAGGACCAGCCTGATCAATATGGTGAAACCCAGTCTTTACTGAAATACAAAAATCACCCGGGTGTGGTGA
SEQ ID NO 11 (4610) ATCACCCTGAGATCAGGAGTTCAGGACCAGCCTGATCAATATGGTGAAACCCAGTCTTTACTGAAATACAAAAATCACCCGGGTGTGGTGA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) --------------------------------------------------------------------------------------------
Consensus(13560)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                          13651            13660         13670         13680         13690         13700         13710         13720         13730      13741
              (13651) 13651 CGGGGCGCCTGTAGTCCCAGCTACTCGGGTAGCTGAGGCAGGAGAATCACTTGAACTCAGGAGTCAGTGAGCTGAGGTTGCAGTGAGCTGAGATCATGC
SEQ ID NO  1(13651) CGGGGCGCCTGTAGTCCCAGCTACTCGGGTAGCTGAGGCAGGAGAATCACTTGAACTCAGGAGTCAGTGAGCTGAGGTTGCAGTGAGCTGAGATCATGC
SEQ ID NO 11 (4701) CGGGGCGCCTGTAGTCCCAGCTACTCGGGTAGCTGAGGCAGGAGAATCACTTGAACTCAGGAGTCAGTGAGCTGAGGTTGCAGTGAGCTGAGATCATGC
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) --------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) --------------------------------------------------------------------------------------------------
      Consensus(13651)
```

```
                          13742            13750         13760         13770         13780         13790         13800         13810         13820      13832
              (13742) 13742 CACTGCACTCCAGCCTGGGTGACAGAGCAAGAGCTCCATCTCAAAAAAAAAAAAAAAAGACTGGTTTTCAACAGCTATTCCCACCCCTC
SEQ ID NO  1(13742) CACTGCACTCCAGCCTGGGTGACAGAGCAAGAGCTCCATCTCAAAAAAAAAAAAAAAAGACTGGTTTTCAACAGCTATTCCCACCCCTC
SEQ ID NO 11 (4792) CACTGCACTCCAGCCTGGGTGACAGAGCAAGAGCTCCATCTCAAAAAAAAAAAAAAAAGACTGGTTTTCAACAGCTATTCCCACCCCTC
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------
      Consensus(13742)
```

```
                          13833            13840         13850         13860         13870         13880         13890         13900         13910      13923
              (13833) 13833 TGCATGGAAATATTCACCCAGTCAATTGTTTTCCTAGTTTGGGTAATGGCCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGC
SEQ ID NO  1(13833) TGCATGGAAATATTCACCCAGTCAATTGTTTTCCTAGTTTGGGTAATGGCCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGC
SEQ ID NO 11 (4883) TGCATGGAAATATTCACCCAGTCAATTGTTTTCCTAGTTTGGGTAATGGCCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGC
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------
      Consensus(13833)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                    Section 154
                   13924      13930      13940      13950      13960      13970      13980      13990      14000      14014
              (13924)                                                                                                                                                           14014
SEQ ID NO 1 (13924) AAACTATGTTTAGAAGCATGTCTGGGAAATGTCATGCAAGAAAAGACATATTTAAAGGTAGGCTTTGCATGAATGGAAAAAGGAGAGTAATT
SEQ ID NO 11 (4974) AAACTATGTTTAGAAGCATGTCTGGGAAATGTCATGCAAGAAAAGACATATTTAAAGGTAGGCTTTGCATGAATGGAAAAAGGAGAGTAATT
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
Consensus(13924)

                                                                                    Section 155
                   14015  14020      14030      14040      14050      14060      14070      14080      14090      14105
              (14015)                                                                                                                                                           14105
SEQ ID NO 1(14015) CTATGTAGAGCAGAGCCCTCTTACTTGCAGTGAGAGAAGCAAGAGGAATTATGCTTTTCATCAGCCAAATTTGCAGGT
SEQ ID NO 11 (5065) CTATGTAGAGCAGAGCCCTCTTACTTGCAGTGAGAGAAGCAAGAGGAATTATGCTTTTCATCAGCCAAATTTGCAGGT
SEQ ID NO 13 (306) --------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------
SEQ ID NO 16  (1) --------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------
Consensus(14015)

                                                                                    Section 156
                   14106      14120      14130      14140      14150      14160      14170      14180      14196
              (14106)                                                                                                                                                           14196
SEQ ID NO 1(14106) AGGAGGATTGGCTCAGTCATCTTGGCTGAGGCTCATGAAACCAGGTGTAAAGAAAGTGGACTAGATTAATTTCATCCATTACAGGAAGAGG
SEQ ID NO 11 (5156) AGGAGGATTGGCTCAGTCATCTTGGCTGAGGCTCATGAAACCAGGTGTAAAGAAAGTGGACTAGATTAATTTCATCCATTACAGGAAGAGG
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
Consensus(14106)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 157

```
                        14210      14220      14230      14240      14250      14260      14270
              (14197) 14197                                                                                            14287
SEQ ID NO 1(14197) AGCCGTGAAAGATAATCCAGAAATCATTGGGATTTGATGGTAGAAGGTATTTGGGACTATTCCATTTGAAATGAGAAGGTACCTGACATT
SEQ ID NO 11 (5247) AGCCGTGAAAGATAATCCAGAAATCATTGGGATTTGATGGTAGAAGGTATTTGGGACTATTCCATTTGAAATGAGAAGGTACCTGACATT
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(14197)
```

Section 158

```
                        14300      14310      14320      14330      14340      14350      14360
              (14288) 14288                                                                                            14378
SEQ ID NO 1(14288) CTTTGAATTCCTTTCAAGCAAAGGATTAAATTTACCCATGAGTTGACTCAGAGAAAAACATAAAAAGTATTGTTGCCTCGCTCAGAGTTTTA
SEQ ID NO 11 (5338) CTTTGAATTCCTTTCAAGCAAAGGATTAAATTTACCCATGAGTTGACTCAGAGAAAAACATAAAAAGTATTGTTGCCTCGCTCAGAGTTTTA
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(14288)
```

Section 159

```
                        14390      14400      14410      14420      14430      14440      14450
              (14379) 14379                                                                                            14469
SEQ ID NO 1(14379) TCTAACTCATTCTCCACTTCTTATTCCATGATGAAATGACATAAAATGAGGTTTTTATTGTTGTTGTGTTTCTGGACACCAAGGCAAG
SEQ ID NO 11 (5429) TCTAACTCATTCTCCACTTCTTATTCCATGATGAAATGACATAAAATGAGGTTTTTATTGTTGTTGTGTTTCTGGACACCAAGGCAAG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(14379)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                    Section 160
                14470          14480          14490          14500          14510          14520          14530          14540          14550     14560
          (14470) 14470
SEQ ID NO 1(14470) GTAGCTACCTGGGCCAGAGAGCTGTTTTATTTCTCTATGCCGTGGGAGAGAAATTGGTTAATTGGCCATGGAAGGCAGTCATTAAGATGTTCCCA
SEQ ID NO 11 (5520) GTAGCTACCTGGGCCAGAGAGCTGTTTTATTTCTCTATGCCGTGGGAGAGAAATTGGTTAATTGGCCATGGAAGGCAGTCATTAAGATGTTCCCA
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------------
    Consensus(14470)

                                                                                                    Section 161
                14570          14580          14590          14600          14610          14620          14630          14640     14651
          (14561) 14561
SEQ ID NO 1(14561) TGCGAGTGAACTTTCCAGGGTTCCCAGCTTCCCTTCCCTGTCCCCTCAATTCCATTGTTGGTGATGACAAATGTCTCTCCCATCAGCC
SEQ ID NO 11 (5611) TGCGAGTGAACTTTCCAGGGTTCCCAGCTTCCCTTCCCTGTCCCCTCAATTCCATTGTTGGTGATGACAAATGTCTCTCCCATCAGCC
SEQ ID NO 13  (306) -----------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -----------------------------------------------------------------------------------------
    Consensus(14561)

                                                                                                    Section 162
                14660          14670          14680          14690          14700          14710          14720          14730     14742
          (14652) 14652
SEQ ID NO 1(14652) TCATGAAGTTCTCTCTCATTATTAAAATTTGCTTTCAGGAAAAATTTGAAAAATTTGAAAATGTGTCCAGTAATGCCTGATTGGCCCCTTATCCTAAA
SEQ ID NO 11 (5702) TCATGAAGTTCTCTCTCATTATTAAAATTTGCTTTCAGGAAAAATTTGAAAAATTTGAAAATGTGTCCAGTAATGCCTGATTGGCCCCTTATCCTAAA
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------------
    Consensus(14652)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                          Section 163
                  14743        14750        14760        14770        14780        14790        14800        14810        14820        14833
              (14743)  14743  |            |            |            |            |            |            |            |            |
SEQ ID NO 1(14743)  GGCTTAAACTGGAGGAAGGAAGCTAAACTGAGAAATCTTGCAAATCATTGAGCCAAAAACGTATTAATAGCAAGATCTATCATTTATTGAC
SEQ ID NO 11 (5793)  GGCTTAAACTGGAGGAAGGAAGCTAAACTGAGAAATCTTGCAAATCATTGAGCCAAAAACGTATTAATAGCAAGATCTATCATTTATTGAC
SEQ ID NO 13  (306)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 17  (367)  ------------------------------------------------------------------------------------------------------
Consensus(14743)

                                                                                          Section 164
                  14834        14840        14850        14860        14870        14880        14890        14900        14910        14924
              (14834)  14834  |            |            |            |            |            |            |            |            |
SEQ ID NO 1(14834)  TAGTATGTGGCAGGCAGTGCCCTTTTATTTAGGCAGGAGAGTTGATGGGGGGGGCGGGGTTCACACATCTTAAAGAGGTGCTATCTCCTC
SEQ ID NO 11 (5884)  TAGTATGTGGCAGGCAGTGCCCTTTTATTTAGGCAGGAGAGTTGATGGGGGGGGCGGGGTTCACACATCTTAAAGAGGTGCTATCTCCTC
SEQ ID NO 13  (306)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 17  (367)  ------------------------------------------------------------------------------------------------------
Consensus(14834)

                                                                                          Section 165
                  14925        14930        14940        14950        14960        14970        14980        14990        15000        15015
              (14925)  14925  |            |            |            |            |            |            |            |            |
SEQ ID NO 1(14925)  CTATATAAAATCATGTAAGTCAAGAGAGTAAGGAATTGTCTTTGTTTGGTTATATTCAGGGGATTAGAGTATACAGTAGAAGATCCCAAGAA
SEQ ID NO 11 (5975)  CTATATAAAATCATGTAAGTCAAGAGAGTAAGGAATTGTCTTTGTTTGGTTATATTCAGGGGATTAGAGTATACAGTAGAAGATCCCAAGAA
SEQ ID NO 13  (306)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 17  (367)  ------------------------------------------------------------------------------------------------------
Consensus(14925)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

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                                                                                                    Section 166
              (15016) 15016        15030      15040      15050      15060      15070      15080      15090      15106
SEQ ID NO 1(15016) ACCTTGGGATCATTTAGACTAAGAAATGCCAATACCGCCGGCGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGCCGAGGTGG
SEQ ID NO 11 (6066) ACCTTGGGATCATTTAGACTAAGAAATGCCAATACCGCCGGCGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGCCGAGGTGG
SEQ ID NO 13  (306) --------------
SEQ ID NO 15  (558) --------------
SEQ ID NO 16    (1) --------------
SEQ ID NO 17  (367) --------------
Consensus(15016)

                                                                                                    Section 167
              (15107) 15107        15120      15130      15140      15150      15160      15170      15180      15197
SEQ ID NO 1(15107) GCGGATCACACAAGGTCAGGAGAGATTGAGACCGTCCTGGCTAACGTGGTGAAACCCTGTCTCTACTACTAAAAATACAAAAAATTAGCCGGGCGTGG
SEQ ID NO 11 (6157) GCGGATCACACAAGGTCAGGAGAGATTGAGACCGTCCTGGCTAACGTGGTGAAACCCTGTCTCTACTACTAAAAATACAAAAAATTAGCCGGGCGTGG
SEQ ID NO 13  (306) --------------
SEQ ID NO 15  (558) --------------
SEQ ID NO 16    (1) --------------
SEQ ID NO 17  (367) --------------
Consensus(15107)

                                                                                                    Section 168
              (15198) 15198        15210      15220      15230      15240      15250      15260      15270      15288
SEQ ID NO 1(15198) TGGCGGGGCGCGCCTGTAGTCCCAGCTACTCGGGAGGCCGAGGCAGGAGAATGGTGTGAACTCAGGAGGCGGAGCTTGCAGTCAGCCGAGATTG
SEQ ID NO 11 (6248) TGGCGGGGCGCGCCTGTAGTCCCAGCTACTCGGGAGGCCGAGGCAGGAGAATGGTGTGAACTCAGGAGGCGGAGCTTGCAGTCAGCCGAGATTG
SEQ ID NO 13  (306) --------------
SEQ ID NO 15  (558) --------------
SEQ ID NO 16    (1) --------------
SEQ ID NO 17  (367) --------------
Consensus(15198)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 169

```
                        15289        15300       15310       15320       15330       15340       15350       15360        15379
              (15289) 15289
SEQ ID NO 1(15289) CCCCAATGCCACTCCAGCCTGGGCGACAGAACGAGAGACTCCGTCTCAGAACACAAAAGGAAATGCCAATACCAGCAGAAATAGAGCCAAA
SEQ ID NO 11 (6339) CCCCAATGCCACTCCAGCCTGGGCGACAGAACGAGAGACTCCGTCTCAGAACACAAAAGGAAATGCCAATACCAGCAGAAATAGAGCCAAA
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(15289)
```

Section 170

```
                        15380        15390       15400       15410       15420       15430       15440       15450        15470
              (15380) 15380                                                                                            15460
SEQ ID NO 1(15380) TCATGAACATAAGCTAAACAAATGTTGGCAGTGTAGCCTAGTGGTTAAGAGAGCAGACTCTTAACTAGAACACTGCACTCCATGTCCTCAC
SEQ ID NO 11 (6430) TCATGAACATAAGCTAAACAAATGTTGGCAGTGTAGCCTAGTGGTTAAGAGAGCAGACTCTTAACTAGAACACTGCACTCCATGTCCTCAC
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(15380)
```

Section 171

```
                        15471        15480       15490       15500       15510       15520       15530       15540        15561
              (15471) 15471                                                                                            15550
SEQ ID NO 1(15471) TGTAGACCCTCACTGTGGGGTTCTAATTAACCCCTGTTACTTACCAGTGGCAGTCTTAAGGCATTCCTTAAGTTCGTTGTGCCCAATTTG
SEQ ID NO 11 (6521) TGTAGACCCTCACTGTGGGGTTCTAATTAACCCCTGTTACTTACCAGTGGCAGTCTTAAGGCATTCCTTAAGTTCGTTGTGCCCAATTTG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(15471)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                            Section 172
                    15562      15570      15580      15590      15600      15610      15620      15630      15640      15652
           (15562)  |          |          |          |          |          |          |          |          |          |
SEQ ID NO 1(15562)  TTCATCTGTAGAAGGGGGTAGGAATGACAGTAGTGTTTACTTTATAGGCTTACTGTGAGCATTAAATGAGTTACTACTGTATTTGTAAAGTGC
SEQ ID NO 11 (6612) TTCATCTGTAGAAGGGGGTAGGAATGACAGTAGTGTTTACTTTATAGGCTTACTGTGAGCATTAAATGAGTTACTACTGTATTTGTAAAGTGC
SEQ ID NO 13 (306)  ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  ---------------------------------------------------------------------------------------------
Consensus(15562)

                                                                                                            Section 173
                    15653      15660      15670      15680      15690      15700      15710      15720      15730      15743
           (15653)  |          |          |          |          |          |          |          |          |          |
SEQ ID NO 1(15653)  TTAAAATGCTGCTCCAAAAGAGAGTTTGTTAAAACACTTAAGAACTGATTTACTTGCATCTAAAACTGACAGCTCTCAATAACTGGAAATGATCA
SEQ ID NO 11 (6703) TTAAAATGCTGCTCCAAAAGAGAGTTTGTTAAAACACTTAAGAACTGATTTACTTGCATCTAAAACTGACAGCTCTCAATAACTGGAAATGATCA
SEQ ID NO 13 (306)  -----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  -----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  -----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  -----------------------------------------------------------------------------------------------
Consensus(15653)

                                                                                                            Section 174
                    15744      15750      15760      15770      15780      15790      15800      15810      15820      15834
           (15744)  |          |          |          |          |          |          |          |          |          |
SEQ ID NO 1(15744)  AGCATAGGCCCTGGAATATAAGCAGGTCTCACATGAAGGCAAAAAATGTTCGTTTCTTTGTTCAGCCCTGGCCTAGATCAATATCTAGTGA
SEQ ID NO 11 (6794) AGCATAGGCCCTGGAATATAAGCAGGTCTCACATGAAGGCAAAAAATGTTCGTTTCTTTGTTCAGCCCTGGCCTAGATCAATATCTAGTGA
SEQ ID NO 13 (306)  ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  ---------------------------------------------------------------------------------------------
Consensus(15744)
```

```
                                                                                                    Section 175
                (15835) 15835   15840     15850     15860     15870     15880     15890     15900     15910     15925
SEQ ID NO 1(15835) TCATGCTCAAGAGAAATATTGTTGAATGAATCAATGAACCTACCGAGGTAGTTACATAAAAGAGTTCTGCATGAGTACAAATCTGGGCAAAGT
SEQ ID NO11 (6885) TCATGCTCAAGAGAAATATTGTTGAATGAATCAATGAACCTACCGAGGTAGTTACATAAAAGAGTTCTGCATGAGTACAAATCTGGGCAAAGT
SEQ ID NO13  (306) ---------------------------------------------------------------------------------------------
SEQ ID NO15  (558) ---------------------------------------------------------------------------------------------
SEQ ID NO16    (1) ---------------------------------------------------------------------------------------------
SEQ ID NO17  (367) ---------------------------------------------------------------------------------------------
     Consensus(15835)

                                                                                                    Section 176
                (15926) 15926     15940     15950     15960     15970     15980     15990     16000     16016
SEQ ID NO 1(15926) GACCTCCAAGGAGAAATTTCCACTTTTAGATTCTGTGATTTCCTAAGGAACTGATAAATTGGTGTGATACAATGTGATAGAAAAAAATGTGCCTATA
SEQ ID NO11 (6976) GACCTCCAAGGAGAAATTTCCACTTTTAGATTCTGTGATTTCCTAAGGAACTGATAAATTGGTGTGATACAATGTGATAGAAAAAAATGTGCCTATA
SEQ ID NO13  (306) -----------------------------------------------------------------------------------------------
SEQ ID NO15  (558) -----------------------------------------------------------------------------------------------
SEQ ID NO16    (1) -----------------------------------------------------------------------------------------------
SEQ ID NO17  (367) -----------------------------------------------------------------------------------------------
     Consensus(15926)

                                                                                                    Section 177
                (16017) 16017     16030     16040     16050     16060     16070     16080     16090     16107
SEQ ID NO 1(16017) TGATTTGAGAGAAAAACTTATTTCTCTCCCCTCTTTTTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCTCCCC
SEQ ID NO11 (7067) TGATTTGAGAGAAAAACTTATTTCTCTCCCCTCTTTTTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCCTCCTTCCTCCCC
SEQ ID NO13  (306) -----------------------------------------------------------------------------------------------
SEQ ID NO15  (558) -----------------------------------------------------------------------------------------------
SEQ ID NO16    (1) -----------------------------------------------------------------------------------------------
SEQ ID NO17  (367) -----------------------------------------------------------------------------------------------
     Consensus(16017)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 178

```
                              16108      16120      16130      16140      16150      16160      16170      16180   16198
         (16108) 16108
SEQ ID NO 1(16108) TCCCTCCCTTCCTTCCTTCCTTCCTTTCTTCCTTTCTTCCTTTCTTCCTTTCTTCCTTCTC
SEQ ID NO 11 (7158) TCCCTCCCCCTTCCTTCCTTCCTTCCTTTCTTCCTTTCTTCCTTTCTTCCTTTCTTCCTTCTC
SEQ ID NO 13  (306) ----------------------------------------------
SEQ ID NO 15  (558) ----------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------
SEQ ID NO 17  (367) ----------------------------------------------
Consensus(16108)
```

Section 179

```
                              16199      16210      16220      16230      16240      16250      16260      16270   16289
         (16199) 16199
SEQ ID NO 1(16199) TTTCCTTTCTTCCTTTCTTCCTTTGTGCCTTTCTTCCTTTCTTCCTTTCTTCTGCCTTTC
SEQ ID NO 11 (7249) TTTCCTTTCTTCCTTTCTTCCTTTGTGCCTTTCTTCCTTTCTTCCTTTCTTCTGCCTTTC
SEQ ID NO 13  (306) ----------------------------------------------
SEQ ID NO 15  (558) ----------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------
SEQ ID NO 17  (367) ----------------------------------------------
Consensus(16199)
```

Section 180

```
                              16290      16300      16310      16320      16330      16340      16350      16360   16370      16380
         (16290) 16290
SEQ ID NO 1(16290) TTTCTCTTTGTTTTCTTTCCTTCTTTTTCCTTTCCTTTAAGCAGACCATGTCGTTAGATGAATGCCTTTTCTAGTTAAAAGGTTAAAC
SEQ ID NO 11 (7340) TTTCTCTTTGTTTTCTTTCCTTCTTTTTCCTTTCCTTTAAGCAGACCATGTCGTTAGATGAATGCCTTTTCTAGTTAAAAGGTTAAAC
SEQ ID NO 13  (306) ----------------------------------------------
SEQ ID NO 15  (558) ----------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------
SEQ ID NO 17  (367) ----------------------------------------------
Consensus(16290)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                      16390      16400      16410      16420      16430      16440      16450      16460    16471
              (16381) 16381
SEQ ID NO 1(16381) AGGAAAAGTGAAGCACAATTATCAAGGGTCTCCAGTCATCTCCACATGTTCTTAATCATTATCTTCTTTACAGTTTCATATCTCCAGGCCT
SEQ ID NO 11 (7431) AGGAAAAGTGAAGCACAATTATCAAGGGTCTCCAGTCATCTCCACATGTTCTTAATCATTATCTTCTTTACAGTTTCATATCTCCAGGCCT
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------TTTCATATCTCCAGGCCT
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(16381)                                                                           TTTCATATCTCCAGGCCT
```

Section 182

```
                      16480      16490      16500      16510      16520      16530      16540      16550    16562
              (16472) 16472
SEQ ID NO 1(16472) TTCATTGGGTCAGGTTGGCATTTCGCTGCCCTTTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGGAA
SEQ ID NO 11 (7522) TTCATTGGGTCAGGTTGGCATTTCGCTGCCCTTTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGGAA
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (19) TTCATTGGGTCAGGTTGGCATTTCGCTGCCCTTTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGAA
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(16472) TTCATTGGGTCAGGTTGGCATTTCGCTGCCCTTTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGAA
```

Section 183

```
                      16570      16580      16590      16600      16610      16620      16630      16640    16653
              (16563) 16563
SEQ ID NO 1(16563) TCTGCGCAGCAGTTCCTGGGCGTTCAGCTGCTTCCCACATCACCTGCCTTCCCACATCCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTCCTTGCTCACACCC
SEQ ID NO 11 (7613) TCTGCGCAGCAGTTCCTGGGCGTTCAGCTGCTTCCCACATCACCTGCCTTCCCACATCCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTCCTTGCTTACACCC
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (110) TCTGCGCAGCAGTTCCTGGGCGTTCAGCTGCTTCCCACATCACCTGCCTTCCCACATCCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTCCTTGCTCACACCC
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(16563) TCTGCGCAGCAGTTCCTGGGCGTTCAGCTGCTTCCCACATCACCTGCCTTCCCACATCCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTCCTTGCTCACACCC
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 184

```
                (16654) 16654    16660     16670     16680     16690     16700     16710     16720     16730          16744
SEQ ID NO 1  (16654) TGTGTGCATGACAGGCCCACCATTCATTTATCAGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCTACTTAGCCAGATATACAAGAA
SEQ ID NO 11  (7704) TGTGTGCATGACAGGCCCACCATTCATTTATCAGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCTACTTAGCCAGATATACAAGAA
SEQ ID NO 13   (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (201) TGTGTGCATGACAGGCCCACCATTCATTTATCAGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCTACTTAGCCAGATATACAAGAA
SEQ ID NO 17   (367) ------------------------------------------------------------------------------------------
Consensus   (16654) TGTGTGCATGACAGGCCCACCATTCATTTATCAGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCTACTTAGCCAGATATACAAGAA
```

Section 185

```
                (16745) 16745    16750     16760     16770     16780     16790     16800     16810     16820          16835
SEQ ID NO 1  (16745) TATCTGCACGGATGACCTGCCTCACCTGGGAGCTCAGAGAGGAGCTCAGATTCCATTACTATCGCACTATCTGGACCAAGGACAGAATG
SEQ ID NO 11  (7795) TATCTGCACGGATGACCTGCCTCACCTGGGAGCTCAGAGAGGAGCTCAGATTCCATTACTATCGCACTATCTGGACCAAGGACAGAATG
SEQ ID NO 13   (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (292) TATCTGCACGGATGACCTGCCTCACCTGGGAGCTCAGAGAGGAGCTCAGATTCCATTACTATCGCACTATCTGGACCAAGGACAGAATG
SEQ ID NO 17   (367) ------------------------------------------------------------------------------------------
Consensus   (16745) TATCTGCACGGATGACCTGCCTCACCTGGGAGCTCAGAGAGGAGCTCAGATTCCATTACTATCGCACCTATCTGCCAAGGACAGAATG
```

Section 186

```
                (16836) 16836    16850     16860     16870     16880     16890     16900     16910          16926
SEQ ID NO 1  (16836) ACAGAAAAGACTAACTGCCCCCAAAATCTCCCTTCCAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAATGTGACTGCTCACCCTCTC
SEQ ID NO 11  (7886) ACAGAAAAGACTAACTGCCCCCAAAATCTCCCTTCCAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAATGTGACTGCTCACCCTCTC
SEQ ID NO 13   (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (383) ACAGAAAAGACTAACTGCCCCCAAAATCTCCCTTCCAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAATGTGACTGCTCACCCTCTC
SEQ ID NO 17   (367) ------------------------------------------------------------------------------------------
Consensus   (16836) ACAGAAAAGACTAACTGCCCCCAAAATCTCCCTTCCAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAATGTGACTGCTCACCCTCTC
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                              Section 187
          (16927) 16927      16940       16950       16960       16970       16980       16990       17000       17017
SEQ ID NO 1 (16927) TAAGGACCTGAAAACAACTGGCCATTTCAGCTATTTAAATCAACTTTAAAAATATTAAACCATTTGGTTGGAATG
SEQ ID NO 11 (7977) TAAGGACCTGAAAACAACTGGCCATTTCAGCTATTTAAATCAACTTTAAAAATATTAAACCATTTGGTTGGAATG
SEQ ID NO 13  (306) -----------------------------------------------------------------------------
SEQ ID NO 15  (558) -----------------------------------------------------------------------------
SEQ ID NO 16  (474) TAAGGACCTGAAAACAACTGGCCATTTCAGCTATTTAAATCAACTTTAAAAATATTAAACCATTTGGTTGGAATG
SEQ ID NO 17  (367) -----------------------------------------------------------------------------
Consensus (16927) TAAGGACCTGAAAACAACTGGCCATTTCAGCTATTTAAATCAACTTTAAAAATATTAAACCATTTGGTTGGAATG

                                                                                              Section 188
          (17018) 17018      17030       17040       17050       17060       17070       17080       17090       17108
SEQ ID NO 1 (17018) ATAACATAACTAACCTGCTGACAGCTGCTTCTGCTAGGTGCAAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACTCTACCTTTG
SEQ ID NO 11 (8068) ATAACATAACTAACCTGCTGACAGCTGCTTCTGCTAGGTGCAAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACTCTACCTTTG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (565) ATAACATAACTAACCTGCTGACAGCTGCTTCTGCTAGGTGCAAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACTCTACCTTTG
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus (17018) ATAACATAACTAACCTGCTGACAGCTGCTTCTGCTAGGTGCAAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACTCTACCTTTG

                                                                                              Section 189
          (17109) 17109      17120       17130       17140       17150       17160       17170       17180       17199
SEQ ID NO 1 (17109) GGATTCTAAATTTACTCATATTCTCAAAGAAATATATTCAGTCATAGTGGGGAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAA
SEQ ID NO 11 (8159) GGATTCTAAATTTACTCATATTCTCAAAGAAATATATTCAGTCATAGTGGGGAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAA
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (656) GGATTCTAAATTTACTCATATTCTCAAAGAAATATATTCAGTCATAGTGGGGAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAA
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus (17109) GGATTCTAAATTTACTCATATTCTCAAAGAAATATATTCAGTCATAGTGGGGAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAA
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 190

	17200	17210	17220	17230	17240	17250	17260	17270	17280	17290

```
                 (17200) 17200                                                                                                    17290
SEQ ID NO 1(17200) GTTCTTCCTTCAAATCTTGACATTTAATCAATCAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTT
SEQ ID NO 11 (8250) GTTCTTCCTTCAAATCTTGACATTTAATCAATCAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTT
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16  (747) GTTCTTCCTTCAAATCTTGACATTTAATCAATCAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTT
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------
Consensus(17200) GTTCTTCCTTCAAATCTTGACATTTAATCAATCAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTT
```

Section 191

	17291	17300	17310	17320	17330	17340	17350	17360	17370	17381

```
                 (17291) 17291                                                                                                    17381
SEQ ID NO 1(17291) CTTTTACAAATCCAGAGACTATAGAAGGAAATTCACAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCT
SEQ ID NO 11 (8341) CTTTTACAAATCCAGAGACTATAGAAGGAAATTCACAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCT
SEQ ID NO 13  (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16  (838) CTTTTACAAATCCAGAGACTATAGAAGGAAATTCACAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCT
SEQ ID NO 17  (367) ---------------------------------------------------------------------------------------------
Consensus(17291) CTTTTACAAATCCAGAGACTATAGAAGGAAATTCACAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCT
```

Section 192

	17382	17390	17400	17410	17420	17430	17440	17450	17460	17472

```
                 (17382) 17382                                                                                                    17472
SEQ ID NO 1(17382) TACACCTAACGGAAGTTTATGCCTGTTTCTCTTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTGTTGTGGC
SEQ ID NO 11 (8432) TACACCTAACGGAAGTTTATGCCTGTTTCTCTTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTGTTGTGGC
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16  (929) TACACCTAACGGAAGTTTATGCCTGTTTTTCTCTTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTGTTGTGGC
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------
Consensus(17382) TACACCTAACGGAAGTTTATGCCTGTTTTCTCTTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTGTTGTGGC
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 193

```
                    17473      17480      17490      17500      17510      17520      17530      17540      17550      17563
            (17473) 17473
SEQ ID NO 1(17473)  CTCTGATTACACATGGTCCCCTAAATTTTGACCTAATCACAAAAGATTGGTAAATATTAATAAATATTTGTTTATGTGTCAA
SEQ ID NO 11 (8523) CTCTGATTACACATGGTCCCCTAAATTTTGACCTAATCACAAAAGATTGGTAAATATTAATAAATATTTGTTTATGTGTCAA
SEQ ID NO 13  (306) ----------------
SEQ ID NO 15  (558) ----------------
SEQ ID NO 16 (1020) CTCTGATTACACATGGTCCCCTAAATTTTGACCTAATCACAAAAGATTGGTAAATATTAATAAATATTTGTTTATGTGTCAA
SEQ ID NO 17  (367) ----------------
Consensus(17473)    CTCTGATTACACATGGTCCCCTAAATTTTGACCTAATCACAAAAGATTGGTAAATATTAATAAATATTTGTTTATGTGTCAA
```

Section 194

```
                    17564      17570      17580      17590      17600      17610      17620      17630      17640      17654
            (17564) 17564
SEQ ID NO 1(17564)  TATCTTAGCATGTGTATCAATTAAGACAGAGAGGTCTTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTAAGAGATTCTCCCA
SEQ ID NO 11 (8614) TATCTTAGCATGTGTATCAATTAAGACAGAGAGGTCTTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTAAGAGATTCTCCCA
SEQ ID NO 13  (306) ----------------
SEQ ID NO 15  (558) ----------------
SEQ ID NO 16 (1111) TATCTTAGCATGTGTATCAATTAAGACAGAGAGGTCTTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTAAGAGATTCTCCCA
SEQ ID NO 17  (367) ----------------
Consensus(17564)    TATCTTAGCATGTGTATCAATTAAGACAGAGAGGTCTTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTAAGAGATTCTCCCA
```

Section 195

```
                    17655      17660      17670      17680      17690      17700      17710      17720      17730      17745
            (17655) 17655
SEQ ID NO 1(17655)  GGATCACACAGTTAGGTAACAGAGCTGGATTTTAGTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATT
SEQ ID NO 11 (8705) GGATCACACAGTTAGGTAACAGAGCTGGATTTTAGTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATT
SEQ ID NO 13  (306) ----------------
SEQ ID NO 15  (558) ----------------
SEQ ID NO 16 (1202) GGATCACACAGTTAGGTAACAGAGCTGGATTTTAGTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATT
SEQ ID NO 17  (367) ----------------
Consensus(17655)    GGATCACACAGTTAGGTAACAGAGCTGGATTTTAGTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATT
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 196

```
                      (17746) 17746      17760       17770       17780       17790       17800       17810       17820       17836
SEQ ID NO 1(17746) CAGCATAAAAGGGATCTTCAGTGATCTAAGTCAGGGGTCAGCAACCTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGTGGACCC
SEQ ID NO 11 (8796) CAGCATAAAAGGGATCTTCAGTGATCTAAGTCAGGGGTCAGCAACCTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGTGGACCC
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1293) CAGCATAAAAGGGATCTTCAGTGATCTAAGTCAGGGGTCAGCAACCTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGTGGACCC
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(17746) CAGCATAAAAGGGATCTTCAGTGATCTAAGTCAGGGGTCAGCAACCTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGTGGACCC
```

Section 197

```
                      (17837) 17837      17850       17860       17870       17880       17890       17900       17910       17927
SEQ ID NO 1(17837) TATGGTCTCTATCATAACTGTTCAAATCACCATGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGGCTGTTTTATGGG
SEQ ID NO 11 (8887) TATGGTCTCTATCATAACTGTTCAAATCACCATGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGGCTGTTTTATGGG
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1384) TATGGTCTCTATCATAACTGTTCAAATCACCATGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGGCTGTTTTATGGG
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(17837) TATGGTCTCTATCATAACTGTTCAAATCACCATGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGGCTGTTTTATGGG
```

Section 198

```
                      (17928) 17928      17940       17950       17960       17970       17980       17990       18000       18018
SEQ ID NO 1(17928) ATTTTTTTTAACTCTTTATTTACAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCCTCTGACCCCTGACCTGAGAAAATC
SEQ ID NO 11 (8978) ATTTTTTTTAACTCTTTATTTACAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCCTCTGACCCCTGACCTGAGAAAATC
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1475) ATTTTTTTTAACTCTTTATTTACAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCCTCTGACCCCTGACCTGAGAAAATC
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
Consensus(17928) ATTTTTTTTAACTCTTTATTTACAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCCTCTGACCCCTGACCTGAGAAAATC
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 199

| | (18019) | 18019 | 18030 | 18040 | 18050 | 18060 | 18070 | 18080 | 18090 | 18109 |

```
                     18019     18030     18040     18050     18060     18070     18080     18090     18109
SEQ ID NO 1(18019)   TTATATTATGGACAACACATTTAGACTGTGACTGCCAAGTAAGAGAACAAGACAAGAGCTCTGTCAACTGAAGGCTGGAGTTCTGAAAGCA
SEQ ID NO 11 (9069)  TTATATTATGGACAACACATTTAGACTGTGACTGCCAAGTAAGAGAACAAGACAAGAGCTCTGTCAACTGAAGGCTGGAGTTCTGAAAGCA
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)   ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1566)  TTATATTATGGACAACACATTTAGACTGTGACTGCCAAGTAAGAGAACAAGACAAGAGCTCTGTCAACTGAAGGCTGGAGTTCTGAAAGCA
SEQ ID NO 17 (367)   ------------------------------------------------------------------------------------------
Consensus(18019)     TTATATTATGGACAACACATTTAGACTGTGACTGCCAAGTAAGAGAACAAGACAAGAGCTCTGTCAACTGAAGGCTGGAGTTCTGAAAGCA
```

Section 200

```
                     18110     18120     18130     18140     18150     18160     18170     18180     18190     18200
SEQ ID NO 1(18110)   AAGAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAGAAGATAGTTAAAGTTAGAAGAGCACAAAGAATAATGACCATAGACTCCT
SEQ ID NO 11 (9160)  AAGAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAGAAGATAGTTAAAGTTAGAAGAGCACAAAGAATAATGACCATAGACTCCT
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)   ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1657)  AAGAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAGAAGATAGTTAAAGTTAGAAGAGCACAAAGAATAATGACCATAGACTCCT
SEQ ID NO 17 (367)   ------------------------------------------------------------------------------------------
Consensus(18110)     AAGAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAGAAGATAGTTAAAGTTAGAAGAGCACAAAGAATAATGACCATAGACTCCT
```

Section 201

```
                     18201     18210     18220     18230     18240     18250     18260     18270     18280     18291
SEQ ID NO 1(18201)   GAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTGTGTATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCTCCATTTCTTATC
SEQ ID NO 11 (9251)  GAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTGTGTATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCTCCATTTCTTATC
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)   ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1748)  GAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTGTGTATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCTCCATTTCTTATC
SEQ ID NO 17 (367)   ------------------------------------------------------------------------------------------
Consensus(18201)     GAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTGTGTATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCTCCATTTCTTATC
```

Section 202

```
                                    18310      18320      18330      18340      18350      18360      18370      18382
                 (18292) 18292
SEQ ID NO 1(18292) ATTAAATGAAGATAAATAAAAAGTATTTTCCTCAGAGAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCC
SEQ ID NO 11 (9342) ATTAAATGAAGATAAATAAAAAGTATTTTCCTCAGAGAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCC
SEQ ID NO 13  (306) ---------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ---------------------------------------------------------------------------------------------------
SEQ ID NO 16 (1839) ATTAAATGAAGATAAATAAAAAGTATTTTCCTCAGAGAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCC
SEQ ID NO 17  (367) ---------------------------------------------------------------------------------------------------
  Consensus(18292) ATTAAATGAAGATAAATAAAAAGTATTTTCCTCAGAGAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCC
```

Section 203

```
                                    18400      18410      18420      18430      18440      18450      18460      18473
                 (18383) 18383
SEQ ID NO 1(18383) TATATTAATTTATCAATAAAATGCCAGCTACACATATTAGTTCTCTATATTTTATTCATTATCATAAAATGTTATCTACAGATTGGCATTGT
SEQ ID NO 11 (9433) TATATTAATTTATCAATAAAATGCCAG------------------------------------------------------------------
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) --------------------------------------------------------------------------------------------
SEQ ID NO 16 (1930) TATATTAATTTATCAATAAAATGCCAG------------------------------------------------------------------
SEQ ID NO 17  (367) --------------------------------------------------------------------------------------------
  Consensus(18383) TATATTAATTTATCAATAAAATGCCAG
```

Section 204

```
                                    18490      18500      18510      18520      18530      18540      18550      18564
                 (18474) 18474
SEQ ID NO 1(18474) AAGGATGGAGTTAAAATTGTATGTATGTGAAGGGAAATTATTCCTGTTACTATTGATCTGCATCACATTACCCCAAATTTGATGGCTTAAA
SEQ ID NO 11 (9459) ---------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ---------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ---------------------------------------------------------------------------------------------
  Consensus(18474)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 205

```
                    18565    18570      18580      18590      18600      18610      18620      18630      18640      18655
           (18565) 18565
SEQ ID NO 1(18565) GTAACAACATTCATTTGCAAACAAATTTGAAATTTGAGGAGGGCTTGTGTCTCTGCCCTATGTGGTATCAGCAGGGGG
SEQ ID NO 11 (9459) ------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------
   Consensus(18565)
```

Section 206

```
                    18656      18670      18680      18690      18700      18710      18720      18730      18746
           (18656) 18656
SEQ ID NO 1(18656) AGGCTTGACGGACTGGCACATGCCCTTCCAGAATGGCCCACTCGCATGCCTGCCAAGTTGGTGCTGGCTGGGGAGCTCAGCTGGG
SEQ ID NO 11 (9459) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
   Consensus(18656)
```

Section 207

```
                    18747      18760      18770      18780      18790      18800      18810      18820      18837
           (18747) 18747
SEQ ID NO 1(18747) GCTGAGTGCTAGGGTCCCTGGGAGGTTCCTTGTGGCCTGAACTTCCTCACCACAAGGCGGCGGCGGTGCGGAGTGAGCATTTCAAGATAG
SEQ ID NO 11 (9459) -----------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -----------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) -----------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -----------------------------------------------------------------------------------------------
   Consensus(18747)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                                                                                                    Section 208
              18838         18850       18860       18870       18880       18890       18900       18910       18928
         (18838) 18838
SEQ ID NO 1(18838) AGCCAAGAGATGACACTGTATTACTGTGTAAGAGCCCTGGGAATTAATGTAGCCTCACTTCCATCCCACTCTCATTTTTAAAAAGTGAATT
SEQ ID NO 11 (9459)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 13  (306)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 15  (558)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 16 (1956)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 17  (367)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
     Consensus(18838)

                                                                                                    Section 209
              18929         18940       18950       18960       18970       18980       18990       19000       19019
         (18929) 18929
SEQ ID NO 1(18929) ATTAAAGGTCACCCCATATTCAAGGGGATAGGAATTAGACTTCATCTGTATTAAGAGAAAAATGTTTTTAAAAATTGTAGACATGTTTTAAAAT
SEQ ID NO 11 (9459)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 13  (306)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 15  (558)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 16 (1956)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 17  (367)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
     Consensus(18929)

                                                                                                    Section 210
              19020         19030       19040       19050       19060       19070       19080       19090       19110
         (19020) 19020
SEQ ID NO 1(19020) TCTAAAGTCCACTTACTGGCTGCAGATTATTTATATATACATGCAAGAGATACACTCCTACATTCTCTTCTTAGAAGGCTCAGTTGCAGGTAC
SEQ ID NO 11 (9459)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 13  (306)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 15  (558)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 16 (1956)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
SEQ ID NO 17  (367)-----------------------|------------|------------|------------|------------|------------|------------|------------|--------
     Consensus(19020)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
                   19111      19120      19130      19140      19150      19160      19170      19180      19190      19201
          (19111) 19111
SEQ ID NO 1(19111) AGATGAAGCTCTTCAAGTGAGATTTCTTATGTATTTATCCCTCTCAAATCTGAAGACTTGTAAACTAAGAGAGACAAGTTATTTGCAACCTACAT
SEQ ID NO 11 (9459) -----------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -----------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) -----------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -----------------------------------------------------------------------------------------------
  Consensus(19111)
```

```
                   19202      19210      19220      19230      19240      19250      19260      19270      19280      19292
          (19202) 19202
SEQ ID NO 1(19202) ACGCAATATTCAATGGTAAAGTATACATAGGACAGCCACTACAGACACTCTTGTTTTAAATAGAGGAAAATGAGAGCACATAAACAGTCATT
SEQ ID NO 11 (9459) -------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------
  Consensus(19202)
```

```
                   19293      19300      19310      19320      19330      19340      19350      19360      19370      19383
          (19293) 19293
SEQ ID NO 1(19293) GGCTCATAGCAACTCTGATATCCAGACAGCAAACACAAGCAGGTCTTTTTTAGGTCTCCAGTCCTACTGCCTGGATTCCCTACTGCTCTTG
SEQ ID NO 11 (9459) -------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------
  Consensus(19293)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 214

```
                    19390     19400     19410     19420     19430     19440     19450     19460     19474
            (19384) 19384
SEQ ID NO 1(19384) GGTCTTCCCCTCCAGGTTCTTGGTTCTTGGTTCTTGGACCCTCCTTTTCATTTAATACTATTTCTGTTCCTTTAAGTTCAAGCTGGCAAAATATGATTGTA
SEQ ID NO 11 (9459) -------------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) -------------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) -------------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) -------------------------------------------------------------------------------------------------
   Consensus(19384)
```

Section 215

```
                    19480     19490     19500     19510     19520     19530     19540     19550     19565
            (19475) 19475
SEQ ID NO 1(19475) CAATTCTGTTTAAAATTCCAGGACTTCCTGTGATTCTTATTGGGGAATACTCCATTAGACAAGAATCTCTTTGACATAAGCCATTCTCTAC
SEQ ID NO 11 (9459) ---------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ---------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ---------------------------------------------------------------------------------------------
   Consensus(19475)
```

Section 216

```
                    19580     19590     19600     19610     19620     19630     19640     19656
            (19566) 19566
SEQ ID NO 1(19566) CTGAGATCCCTGTAAGGCTGTGATGGGACCACCATAACCTTAAAATTATTAGAAGACTCATTGTTTACTGAGAGAATATGCCTAGCATATGC
SEQ ID NO 11 (9459) ----------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ----------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ----------------------------------------------------------------------------------------------
   Consensus(19566)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

Section 217

```
                       19657        19670        19680        19690        19700        19710        19720        19730        19747
                (19657)  |            |            |            |            |            |            |            |            |
SEQ ID NO 1(19657) TTAGATCCTTAGAGGAACTCTGTTTCAAAGGGCTTATGAGACATTACCTTATATCTTTCTAAGGTACAAACAAAAGGTCTTTGGCTTTTGA
SEQ ID NO 11 (9459) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
   Consensus(19657)
```

Section 218

```
                       19748        19760        19770        19780        19790        19800        19810        19820        19838
                (19748)  |            |            |            |            |            |            |            |            |
SEQ ID NO 1(19748) GTTTGATCTTTGAGCTGACACCTTTCTTAATTTGAGAATCCCCTGCTCTATGGAGAGACTGACAAAGAGAAATAGTTTATATTTGAATG
SEQ ID NO 11 (9459) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
   Consensus(19748)
```

Section 219

```
                       19839        19850        19860        19870        19880        19890        19900        19910        19929
                (19839)  |            |            |            |            |            |            |            |            |
SEQ ID NO 1(19839) TAACATCTTGGATCTTTAATAGATTATCTTAAAATTTTCCTGAAAAATGTAACAGTTCCTTTTTTAAAATTCATTCTCCCTACACACTTAT
SEQ ID NO 11 (9459) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (1956) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------------------------------
   Consensus(19839)
```

SEQ NO 11, 13, 15, 16 and 17 against SEQ NO 1

```
            (19930) 19930       19940       19950       19960       19970       19980       19999
SEQ ID NO 1(19930)(19930) TATATATGACTAAAAGAAACTCCCTGGCATTTTCAACATTCTGGTTAGAATTTTCTTAGCCCAATCTAC
SEQ ID NO 11 (9459) ------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------
SEQ ID NO 15  (558) ------------------------------------------------------------------
SEQ ID NO 16 (1956) ------------------------------------------------------------------
SEQ ID NO 17  (367) ------------------------------------------------------------------
    Consensus(19930)
```

EXHIBIT B

align SEQID#2 against SEQID#11.apr

Section 1

```
                          10        20        30        40        50        60        70        80      91
SEQ ID NO 11   (1) ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCTGTCGAAAGCTTGAATAAAACAAAAG
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1) ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCTGTCGAAAGCTTGAATAAAACAAAAG
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus      (1)
```

Section 2

```
                          100       110       120       130       140       150       160       170    182
SEQ ID NO 11  (92) AGGAAGGGAAAAATTTGCTTCTTTTCTTGATCTAGTATATCATCTTCCTGCCCTTGGATGTGAGTGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 2    (1) -----------------------------------------------------------------------------------------
SEQ ID NO 13  (92) AGGAAGGGAAAAATTTGCTTCTTTTCTTGATCTAGTATATCATCTTCCTGCCCTTGGATGTGAGTGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 15   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -----------------------------------------------------------------------------------------
Consensus     (92)
```

Section 3

```
                          190       200       210       220       230       240       250       260    273
SEQ ID NO 11 (183) AGTTACACCTTTGGCTTCCCTGGTTCTCCAGTTCTTTGGACTTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 2    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 13 (183) AGTTACACCTTTGGCTTCCCTGGTTCTCCAGTTCTTTGGACTTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------
Consensus    (183)
```

align SEQID#2 against SEQID#11.apr

Section 4

                        280   290   300   310   320   330   340   350   364
SEQ ID NO 11   (274) 274 AGATCATGGGACTTCTTGGCCTCCATAATTGTGTGAGTCAATTTCCATTTTATTTACATATCCAGTTAGCATTGCTTAACAATGGAGACA
SEQ ID NO 2   (1) --
SEQ ID NO 13   (274) AGATCATGGGACTTCTTGGCCTCCATAATTGT--
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus   (274)

Section 5

                        370   380   390   400   410   420   430   440   455
SEQ ID NO 11   (365) 365 GGTTCTGAGAAATGCATTGTTAAGTGATTTCATCATTGTGCAAACATCATAGAGTGTAACTACCACAAACCTGGACAGCAGCATAGACTACTACA
SEQ ID NO 2   (1) --
SEQ ID NO 13   (306) --
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus   (365)

Section 6

                        470   480   490   500   510   520   530   546
SEQ ID NO 11   (456) 456 CATCCTAGGCTACATGGTGTGAGCTTGTAACCCTCATGATAACATCATGATAAGTATAACATCATGATAAGTATGTATCTACCATATCTCAAATGTAG
SEQ ID NO 2   (1) --
SEQ ID NO 13   (306) --
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus   (456)

align SEQID#2 against SEQID#11.apr

Section 7

```
                        560       570       580       590       600       610       620      637
                (547) 547 AAAAGGTACAGTAAAAAATATGGTATAATCTTATGGGATCACCACATCATATATGCAATCCTTTGTGTAGACTGAAATGTCATTGTGTAGTGCATG
SEQ ID NO 11    (547) ----------------------------------------------------------------------------------------------
SEQ ID NO 2       (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13    (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15      (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16      (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17      (1) ----------------------------------------------------------------------------------------------
Consensus       (547)
```

Section 8

```
                        650       660       670       680       690       700       710      728
                (638) 638 ACTGTATACGCACACATACACACACACACACACAAAAATATACTATTGGTTCTTTTCTCTGAAGAGCCCTAATACAATATGTTATACATTTATA
SEQ ID NO 11    (638) ---------------------------------------------------------------------------------------------
SEQ ID NO 2       (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13    (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17      (1) ---------------------------------------------------------------------------------------------
Consensus       (638)
```

Section 9

```
                        740       750       760       770       780       790       800      819
                (729) 729 TTGACTCTCTATTTCAAAATTTATGGTTTTGGTGAAACATATGTGGGAGATGGGGCATAGGTGTGTGAACTGGGATAGTGTCCTGCTGATGAAT
SEQ ID NO 11    (729) ---------------------------------------------------------------------------------------------
SEQ ID NO 2       (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13    (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 16      (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17      (1) ---------------------------------------------------------------------------------------------
Consensus       (729)
```

align SEQID#2 against SEQID#11.apr

Section 10

```
                       (820) 820       830       840       850       860       870       880       890       900       910
SEQ ID NO 11 (820) GGGTGGGGAGGCATCATTTGGGACAAGCCCAGGGCATCAGCTTATAGATATCAAGAGCTCAACAAGAGCACTTTATGGCAAAACCTCCCACA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
  Consensus  (820)
```

Section 11

```
                       (911) 911       920       930       940       950       960       970       980       990      1001
SEQ ID NO 11 (911) AGACCCTCTCAGAAGTTGAGAAACTGCTAAAAGTTTCTTTATGACAGATGACATTTATGGATAAAAATAGGGATTAGCAGGATTCTTTAAATA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
  Consensus  (911)
```

Section 12

```
                      (1002) 1002     1010      1020      1030      1040      1050      1060      1070      1080      1092
SEQ ID NO 11(1002) CTTTCGAACACTAACCTTCATTTCTACCAGGCAGTGGGGCCCCAAGTGCAGGGCCATAGGAAGTACAAGTCTCGGGAGATACTAGGCTGCAC
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
  Consensus (1002)
```

align SEQID#2 against SEQID#11.apr

Section 13

```
                        1100      1110      1120      1130      1140      1150      1160      1170    1183
             (1093) 1093
SEQ ID NO 11(1093) TGTCTGTAGAGAATCTGAAAAAATAAATAGAGTCACTGAAATGCAGTTTGGTATAATTATTGCCATGCATCATAATTCTAAATCATACTAGT
SEQ ID NO 2   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 13(306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) -------------------------------------------------------------------------------------------
Consensus(1093)
```

Section 14

```
                        1190      1200      1210      1220      1230      1240      1250      1260    1274
             (1184) 1184
SEQ ID NO 11(1184) GGTCAAATACTCTTCCCTGAAAAAACATTTTCTTGGTTTGAATTCTAAATAATTGTTGGTGGTCACCACTGAGCTTTTAAATATATAAAATAC
SEQ ID NO 2   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 13(306) --------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) --------------------------------------------------------------------------------------------
Consensus(1184)
```

Section 15

```
                        1280      1290      1300      1310      1320      1330      1340      1350    1365
             (1275) 1275
SEQ ID NO 11(1275) TTTCAAGTTTGCATATTTTTATTACCTGTTCCTTAACAAACATTGAATTCAACATGAAAAATGATTATGGGAAACATTCGGGTATACAGTCC
SEQ ID NO 2   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 13(306) -------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) -------------------------------------------------------------------------------------------
Consensus(1275)
```

align SEQID#2 against SEQID#11.apr

Section 16

		1380	1390	1400	1410	1420	1430	1440	1456

SEQ ID NO 11 (1366) 1366 CTGACTCTTAAGGACTCAGGTAAATACTTAGGGTATTTCATGGCCCCTAGTCTTTGGGGTACCACATGTTTCTTCTTCAAATCACAGATTCA
SEQ ID NO 2   (1) --
SEQ ID NO 13 (306) --
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus(1366)

Section 17

		1470	1480	1490	1500	1510	1520	1530	1547

SEQ ID NO 11 (1457) 1457 AAATCAAGAATGATAACACAGTGATTGTGTAGACAAAATAAGTGAACCAAAATTGCTTCGTCATTCTATGGAACCACTGAGAGTTT
SEQ ID NO 2   (1) ---
SEQ ID NO 13 (306) ---
SEQ ID NO 15   (1) ---
SEQ ID NO 16   (1) ---
SEQ ID NO 17   (1) ---
Consensus(1457)

Section 18

		1560	1570	1580	1590	1600	1610	1620	1638

SEQ ID NO 11 (1548) 1548 TTACTTGTGTGCTTAAAATTTGAATAGTAAAACAGAGTGTCAACTTCATGCTGGAATATTTTTGGCTTTTTAGACACAATTTTAAGTACATG
SEQ ID NO 2   (1) --
SEQ ID NO 13 (306) --
SEQ ID NO 15   (1) --
SEQ ID NO 16   (1) --
SEQ ID NO 17   (1) --
Consensus(1548)

align SEQID#2 against SEQID#11.apr

```
                        1639        1650       1660       1670       1680       1690       1700       1710                 1729
SEQ ID NO 11(1639) AAGTATTTTTACAAGACTAAGTAACATCACTGAAATTACAGCTTTCTTCTTTTTAAAACTGGTATTGTTATAAAACTAAAGAGCGAATCA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(1639)
```

```
                        1730        1740       1750       1760       1770       1780       1790       1800       1810      1820
SEQ ID NO 11(1730) AGAAAAGCATAATTATTACTGATTATTACAGGATTATTACTGAAAAAGAAAATGTACGGAATAGAGGAGGAGTTAACAAATGATCCAC
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(1730)
```

```
                        1821        1830       1840       1850       1860       1870       1880       1890       1900      1911
SEQ ID NO 11(1821) TCTGGGGTGTTGAAAACACCAATAAGCCTGCTTCCAGGAAGTGCCTAAGACAGAGCTGGCTCAGCTTGCTGGGTCACAGCATGTAAGGAAAC
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(1821)
```

align SEQID#2 against SEQID#11.apr

```
                    1912      1920      1930      1940      1950      1960      1970      1980      1990      2002
            (1912) 1912
SEQ ID NO 11(1912) TGCTGGGCTACACATGCCACCATCCCTCAGTTGTCCAGATAGATAATCCCATAGCCCCATGGGGGAAATAATCTTTAATTATGATATAGCTGACA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------------
    Consensus(1912)
```

```
                    2003      2010      2020      2030      2040      2050      2060      2070      2080      2093
            (2003) 2003
SEQ ID NO 11(2003) CCATTCAAAGCACTATGCTAAGTCCTTTATGTGAATTAACTTTTGTCAAATTTATTTTCATAAATAACCCAAATATGTATACCACTATTA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
    Consensus(2003)
```

```
                    2094      2100      2110      2120      2130      2140      2150      2160      2170      2184
            (2094) 2094
SEQ ID NO 11(2094) TCCTACCTTAAAGAGGAGAAACTGAGCTCCTAAAGTTTAAATATCTAACCCAAGTTAAGACTGCTAGTCACCCTAGGCTATTAACTCAGGC
SEQ ID NO 2    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------
    Consensus(2094)
```

align SEQID#2 against SEQID#11.apr

```
                                    2185      2190      2200      2210      2220      2230      2240      2250      2260               2275
                 (2185) 2185 ......|.........|.........|.........|.........|.........|.........|.........|.........|.........|.........|
SEQ ID NO 11(2185) AGTCTAACTCAGGTATATAACATTATGCTACTGTTTGCAGCTTTGACTATGCCTGAATTATAACGTCATGCTATCTAACTAAAAAGCTAA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
    Consensus(2185)
                                                                                                     Section 25

                                    2290      2300      2310      2320      2330      2340      2350               2366
                 (2276) 2276 ......|.........|.........|.........|.........|.........|.........|.........|.........|.........|
SEQ ID NO 11(2276) GGGAAATAAAATGAGCCATAGGGCTCAATTTCATAAAAGGAGAGAAAATACTGGGGAAAAGTGATAATGCAGAGTTTAAAAATATTTTGTA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
    Consensus(2276)
                                                                                                     Section 26

                                    2380      2390      2400      2410      2420      2430      2440               2457
                 (2367) 2367 ......|.........|.........|.........|.........|.........|.........|.........|.........|.........|
SEQ ID NO 11(2367) AAAGTGCCAGAGATTGAGTATAACAAGTGTGACCAAAAAAAAAAAAAAAAAAAAAAAAGGAGAAGGTAAAAAAAGAGGGGAGGTCTGAGA
SEQ ID NO 2    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
    Consensus(2367)
                                                                                                     Section 27
```

align SEQID#2 against SEQID#11.apr

Section 28

```
                        2470      2480      2490      2500      2510      2520      2530      2548
             (2458) 2458
SEQ ID NO 11(2458) AATAGAAAATATCAGAGGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATTCAGATTCCACAAATCACATTTCT
SEQ ID NO 2    (1) -----------ATCAGAGGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATTCAGATTCCACAAATCACATTTCT
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------
  Consensus(2458)
```

Section 29

```
                        2560      2570      2580      2590      2600      2610      2620      2639
             (2549) 2549
SEQ ID NO 11(2549) TTTTTTACCAACTAAGGAAAAAATAACACTTGACCTAACACATTCATTGCAGTTAGCTAAAGGATGCTAGAAAACTATGTTGCAGTGGTTTG
SEQ ID NO 2   (83) TTTTTTACCAACTAAGGAAAAAATAACACTTGACCTAACACATTCATTGCAGTTAGCTAAAGGATGCTAGAAAACTATGTTGCAGTGGTTTG
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------------
  Consensus(2549)
```

Section 30

```
                        2650      2660      2670      2680      2690      2700      2710      2720      2730
             (2640) 2640
SEQ ID NO 11(2640) CTCTAATTTCTTCAGGAATAGAGAAAAGTGACAAAAAGATCAGAGAAGAGAAGAAGAAACTATCAGAAAAATACAGAATTGGAGTAGGA
SEQ ID NO 2  (174) CTCTAATTTCTTCAGGAATAGAGAAAAGTGACAAAAAGATCAGAGAAGAGAAGAAGAAACTATCAGAAAAATACAGAATTGGAGTAGGA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
  Consensus(2640)
```

align SEQID#2 against SEQID#11.apr

```
                          2740      2750      2760      2770      2780      2790      2800      2810      2821
             (2731) 2731                                                                                     
SEQ ID NO 11(2731) TATAAACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACTTCAGTTGGTCCCTGGAACAGCAGCATCAGAA
SEQ ID NO 2 (265) TATAAACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACTTCAGTTGGTCCCTGGAACAGCAGCATCAGAA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
  Consensus(2731)                                                                                            
```

```
                          2830      2840      2850      2860      2870      2880      2890      2900      2912
             (2822) 2822                                                                                     
SEQ ID NO 11(2822) TCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGGTCCCATCCCAGACTCACTGAATCAGAATATAAAATACTGACAAGATGCCCCGGGAT
SEQ ID NO 2 (356) TCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGGTCCCATCCCAGACTCACTGAATCAGAATATAAAATACTGACAAGATGCCCCGGGAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
  Consensus(2822)                                                                                            
```

```
                          2920      2930      2940      2950      2960      2970      2980      2990      3003
             (2913) 2913                                                                                     
SEQ ID NO 11(2913) TCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGATTGTTTCTGCAACTTAGTATTTCTGAGTTTCCCAAGGAAGAAAAC
SEQ ID NO 2 (447) TCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGATTGTTTCTGCAACTTAGTATTTCTGAGTTTCCCAAGGAAGAAAAC
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ---------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ---------------------------------------------------------------------------------------
  Consensus(2913)                                                                                            
```

align SEQID#2 against SEQID#11.apr

Section 34

```
                    (3004) 3004    3010      3020      3030      3040      3050      3060      3070      3080      3094
SEQ ID NO 11(3004) CCAGGGCCTTAGCTTCTCGGCAGACTTGTGTTTCTCCTTTACTTACTAGCTGCATGAGCTGCATGAGACTCATGAGCAAGGAAATCAAACTTTATGTGCCTGAG
SEQ ID NO 2  (538) CCAGGGCCTTAGCTTCTCGGCAGACTTGTGTTTCTCCTTTACTTACTAGCTGCATGAGCTGCATGAGACTCATGAGCAAGGAAATCAAACTTTATGTGCCTGAG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)  ------------------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)  ------------------------------------------------------------------------------------------------------
     Consensus(3004)
```

Section 35

```
                    (3095) 3095    3100      3110      3120      3130      3140      3150      3160      3170      3185
SEQ ID NO 11(3095) TTTCCCTCATCTATAAAAATGGAGACTATAATAATCATCTCCTAGGCTTGTGTTTTGAGGATGTTCAACAAATGCTCCTTTCATTCCTCCTATTTA
SEQ ID NO 2  (629) TTTCCCTCATCTATAAAAATGGAGACTATAATAATCATCTCCTAGGCTTGTGTTTTGAGGATGTTCAACAAATGCTCCTTTCATTCCTCCTATTTA
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)  ----------------------------------------AATGTTCAACAAATGCTCCTTTCATTCCTCCTATTTA
     Consensus(3095)                                              ATGTTCAACAAATGCTCCTTTCATTCCTCCTATTTA
```

Section 36

```
                    (3186) 3186    3200      3210      3220      3230      3240      3250      3260      3276
SEQ ID NO 11(3186) CAGACCTGCCGCGCAGGACAATTCTGCTAGGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
SEQ ID NO 2  (720) CAGACCTGCCGCGCAGGACAATTCTGCTAGGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 17  (36) CAGACCTGCCGCGCAGGACAATTCTGCTAGGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
     Consensus(3186) CAGACCTGCCGCGCAGGACAATTCTGCTAGGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
```

```
                                                                              Section 37
             3290      3300      3310      3320      3330      3340      3350      3367
      (3277) 3277
SEQ ID NO 11(3277) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACACAGAATACGATTTAGCAAATTACTTCTTAAGATATTATTTTACATTTCTA
SEQ ID NO 2  (811) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACACAGAATACGATTTAGCAAATTACTTCTTAAGATATTATTTTACATTTCTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (127) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACAACAGAATACGATTTAGCAAATTACTTCTTAAGATATTATTTTACATTTCTA
Consensus  (3277) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACAACAGAATACGATTAGCAAATTACTTCTTAAGATATTATTTTACATTTCTA

                                                                              Section 38
             3380      3390      3400      3410      3420      3430      3440      3458
      (3368) 3368
SEQ ID NO 11(3368) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGGACAGGTAAGGTAAAAAACATATTAT
SEQ ID NO 2  (902) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGGACAGGTAAGGTAAAAAACATATTAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (218) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGGACAGGTAAGGTAAAAAACATATTAT
Consensus  (3368) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGGACAGGTAAGGTAAAAAACATATTAT

                                                                              Section 39
             3470      3480      3490      3500      3510      3520      3530      3549
      (3459) 3459
SEQ ID NO 11(3459) TTATTCTACGTTTTTGTCCAAAAAATTTAAATTTCAACTGTTGCGGCGTGTTGGCGTGTGTTGGTAATGTAAAAACAAACTCAGTAGTATTCAGTA
SEQ ID NO 2  (993) TTATTCTACGTTTTTGTCCAAAAAATTTAAATTTCAACTGTTGCGGCGTGTTGGCGTGTGTTGGTAATGTAAAAACAAACTCAGTAGTATTCAGTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (309) TTATTCTACGTTTTTGTCCAAAAAATTTAAATTTCAACTGTTGCGGCGTGTTGGCGTGTGTTGGTAA--------------------------
Consensus  (3459) TTATTCTACGTTTTTGTCCAAAAAATTTAAATTTCAACTGTTGCGGCGTGTGTTGGTAA
```

align SEQID#2 against SEQID#11.apr

Section 40

```
                         3550      3560      3570      3580      3590      3600      3610      3620      3630      3640
              (3550) 3550
SEQ ID NO 11(3550) CAGTATTTAAGCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAGCAAATTTGTGTGAGATATCGTAGATGGAAGTA
SEQ ID NO 2(1084) CAGTATTTAAGCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAGCAAATTTGTGTGAGATATCGTAGATGGAAGTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
    Consensus(3550)
```

Section 41

```
                         3650      3660      3670      3680      3690      3700      3710      3720      3731
              (3641) 3641
SEQ ID NO 11(3641) AATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACTCTGTGTGTGTATGTGTGTGTGTGTGTGACAGAGAGTGTGTGTGAGAGAGAG
SEQ ID NO 2(1175) AATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACTCTGTGTGTGTATGTGTGTGTGTGTGTGACAGAGAGTGTGTGTGAGAGAGAG
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------------
    Consensus(3641)
```

Section 42

```
                         3740      3750      3760      3770      3780      3790      3800      3810      3822
              (3732) 3732
SEQ ID NO 11(3732) ACAGAGAGATACGCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAGTTTTCTAAAGAAAATGAGATCATAACAAAAGC
SEQ ID NO 2(1266) ACAGAGAGATACGCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAGTTTTCTAAAGAAAATGAGATCATAACAAAAGC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
    Consensus(3732)
```

align SEQID#2 against SEQID#11.apr

Section 43

```
                        3823      3830      3840      3850      3860      3870      3880      3890      3900      3913
                  (3823)
SEQ ID NO 11(3823)     CCTCTTTATGACTATCTTTATCAGGGGCAAAAAGGAAGAGACAAAACAGCATGAAATGATGAGACCAAGTGATGAAAAATTCATTCACAA
SEQ ID NO 2(1357)      CCTCTTTATGACTATCTTTATCAGGGGCAAAAAGGAAGAGACAAAACAGCATGAAATGATGAGACCAAGTGATGAAAAATTCATTCACAA
SEQ ID NO 13 (306)     ------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)      --------------GGGCAAAAAGGAAGAGAGACAAAACAGCATGAAATGATGAGACCAAGTGATGAAAAATTCATTCACAA
SEQ ID NO 16  (1)      ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)     ------------------------------------------------------------------------------------------
      Consensus(3823)  GGGCAAAAAGGAAAGAGAGACAAAACAGCATGAAATGATGAGACCAAGTGATGAAAAATTCATTCACAA
```

Section 44

```
                        3914      3920      3930      3940      3950      3960      3970      3980      3990      4004
                  (3914)
SEQ ID NO 11(3914)     TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 2(1448)      TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 13 (306)     ------------------------------------------------------------------------------------------
SEQ ID NO 15 (67)      TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 16  (1)      ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)     ------------------------------------------------------------------------------------------
      Consensus(3914)  TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
```

Section 45

```
                        4005      4010      4020      4030      4040      4050      4060      4070      4080      4095
                  (4005)
SEQ ID NO 11(4005)     AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
SEQ ID NO 2(1539)      AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
SEQ ID NO 13 (306)     ------------------------------------------------------------------------------------------
SEQ ID NO 15 (158)     AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
SEQ ID NO 16  (1)      ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)     ------------------------------------------------------------------------------------------
      Consensus(4005)  AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
```

align SEQID#2 against SEQID#11.apr

Section 46

               4110   4120   4130   4140   4150   4160   4170   4185

	(4096) 4096								
SEQ ID NO 11	(4096)	TCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 2	(1630)	TCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 13	(306)	-------------------------------
SEQ ID NO 15	(249)	TCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 16	(1)	-------------------------------
SEQ ID NO 17	(367)	-------------------------------
Consensus	(4096)	TCTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA

Section 47

               4200   4210   4220   4230   4240   4250   4260   4277

	(4187) 4187	
SEQ ID NO 11	(4187)	ATAGAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCCAGATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 2	(1721)	ATAGAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCCAGATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 13	(306)	-------------------------------
SEQ ID NO 15	(340)	ATAGAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCCAGATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 16	(1)	-------------------------------
SEQ ID NO 17	(367)	-------------------------------
Consensus	(4187)	ATAGAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCCAGATTCTTGAATGATCTTGGCAAATGTCT

Section 48

               4290   4300   4310   4320   4330   4340   4350   4368

	(4278) 4278	
SEQ ID NO 11	(4278)	CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTAAAAACCTTTCTTGCAG
SEQ ID NO 2	(1812)	CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTAAAAACCTTTCTTGCAG
SEQ ID NO 13	(306)	-------------------------------
SEQ ID NO 15	(431)	CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTAAAAACCTTTCTTGCAG
SEQ ID NO 16	(1)	-------------------------------
SEQ ID NO 17	(367)	-------------------------------
Consensus	(4278)	CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTAAAAACCTTTCTTGCAG

align SEQID#2 against SEQID#11.apr

```
                         4369      4380      4390      4400      4410      4420      4430      4440          4459
SEQ ID NO 11(4369) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAAAAGTAAGTACTCTGTGAGTGTGAAAAATTCTTAAAGGACACCCTCTTTTACAAACTCA
 SEQ ID NO 2(1903) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAA ------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (522) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAA ------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
  Consensus(4369) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAA
```

```
                         4460      4470      4480      4490      4500      4510      4520      4530      4540      4550
SEQ ID NO 11(4460) CAAAAACAGCCTTTGGAATACCCACCACATGAAGTAGCTGTGTTATTGCTTTCTATATACCTACATCTTGTCTATTATAAAAAGACTGGTTTT
 SEQ ID NO 2(1939) -----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------------
  Consensus(4460)
```

```
                         4551      4560      4570      4580      4590      4600      4610      4620      4630          4641
SEQ ID NO 11(4551) TGGCAGGTGTGGTGGCTCACACCTGTAATTCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCACCTGAGATCAGGAGTTCAGGACCAGCCT
 SEQ ID NO 2(1939) -----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------------
  Consensus(4551)
```

align SEQID#2 against SEQID#11.apr

```
                                                                                                    Section 52
              4642      4650      4660      4670      4680      4690      4700      4710      4720      4732
         (4642)
SEQ ID NO 11(4642) GATCAATATGGTGAAACCCAGTCTTTACTGAAAAATACAAAAAATCACCCGGGGTGTGGGTGACGGGGCGCCTGTAGTCCCAGCTACTCGGGTAGC
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
    Consensus(4642)

                                                                                                    Section 53
              4733      4740      4750      4760      4770      4780      4790      4800      4810      4823
         (4733)
SEQ ID NO 11(4733) TGAGGCAGGAGAATCACTTGAACTCAGGAGGTCAGAGTCAGTGCCACTGCACTGCAGTGAGATCATGCCACTCCAGCCTGGGTGACAGAGAGCAAGA
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
    Consensus(4733)

                                                                                                    Section 54
              4824      4830      4840      4850      4860      4870      4880      4890      4900      4914
         (4824)
SEQ ID NO 11(4824) CTCCATCTCAAAAAAAAAAAAAAAAAAAAGACTGGTTTTCAACAGCTATTCCCACCCCTCTGCATGGAAATATTCACCCAGTCAATTGTTTT
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
    Consensus(4824)
```

align SEQID#2 against SEQID#11.apr

Section 55

```
                   4915      4920      4930      4940      4950      4960      4970      4980      4990      5005
              (4915) 4915                                                                                      5005
SEQ ID NO 11(4915) CCTAGTTTGGGTAATGGCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGCAAACTATGTTTAGAAGCATGTCTGGGAAATGT
SEQ ID NO 2(1939) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
    Consensus(4915)
```

Section 56

```
                   5006      5020      5030      5040      5050      5060      5070      5080      5096
              (5006) 5006                                                                            5096
SEQ ID NO 11(5006) CATGCAAGAAAAAGACATATTTAAAGGTAGGCTTTGCATGAATGGAAAAGGAGAGTAATTCTATGTAGAGCAGCAGAGCCCTCTTACTTGCAGTGA
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
    Consensus(5006)
```

Section 57

```
                   5097      5110      5120      5130      5140      5150      5160      5170      5187
              (5097) 5097                                                                            5187
SEQ ID NO 11(5097) GAGAAGCAAAAAGTGGGGAAGCAAGAGGAATTATGCTTTTCATCAGCCAAATTTGCAGGTAGGAGGATTGGCTCAGTCATCTTGGCTGAGGC
SEQ ID NO 2(1939) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
    Consensus(5097)
```

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align SEQID#2 against SEQID#11.apr

Section 58

```
                              5200      5210      5220      5230      5240      5250      5260        5278
                (5188) 5188 ......:.........:.........:.........:.........:.........:.........:.........:
SEQ ID NO 11(5188) TCATGAAACCAGGTGTAAAGAGAAGTGGACTAGATTAATTTCATCCATTACAGGAAGAGGAGCCGTGAAAGATAATCCAGAAATCATTGGGA
SEQ ID NO 2(1939) ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
     Consensus(5188)
```

Section 59

```
                              5290      5300      5310      5320      5330      5340      5350        5369
                (5279) 5279 ......:.........:.........:.........:.........:.........:.........:.........:
SEQ ID NO 11(5279) TTTGATGGTAGAAGGTATTTGGGACTATTCCATTGAAATGAGAAGGTACCTGACATTCTTGAATTCCTTTCAAGCAAAGGATTAAATT
SEQ ID NO 2(1939) ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
     Consensus(5279)
```

Section 60

```
                              5380      5390      5400      5410      5420      5430      5440        5460
                (5370) 5370 ......:.........:.........:.........:.........:.........:.........:.........:  5450
SEQ ID NO 11(5370) TACCCATGAGTTGACTCAGAGAAAAAACATAAAAAAGTATTGTTGCTCCTCGCTCAGAGTTTTATCTAACTCATTCTCCACTTCTTATTCCATGATG
SEQ ID NO 2(1939) ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
     Consensus(5370)
```

align SEQID#2 against SEQID#11.apr

```
                         5470      5480      5490      5500      5510      5520      5530      5540      5551
            (5461) 5461
SEQ ID NO 11(5461) AAATGACATAAATGAGGTTTTTTATTGTTGTTGTTGTTTTCTGGACACAAGGCAAGGTAGCTACCTGGGCAGAGCTGTTTTATTTCTC
SEQ ID NO 2(1939)  ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(5461)
```

```
                         5560      5570      5580      5590      5600      5610      5620      5630      5642
            (5552) 5552
SEQ ID NO 11(5552) TATGCCGTGGAGAGAAATTGGTTAATTGGCCATGGAAGGCAGTCATTAAGATGTTCCCATGCGAGTGAACTTTCCAGGGTTCCCAGCTTCT
SEQ ID NO 2(1939)  -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
      Consensus(5552)
```

```
                         5650      5660      5670      5680      5690      5700      5710      5720      5733
            (5643) 5643
SEQ ID NO 11(5643) GCATCCTTCCCTGTCCCTCAATTCCATTGTTGGTGATGACAAATGTCTCTCCCCATCAGCCTCATGAAGTTCTCTCCTCCATTTATTAAAATTTG
SEQ ID NO 2(1939)  ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
      Consensus(5643)
```

align SEQID#2 against SEQID#11.apr

```
                                          5740      5750      5760      5770      5780      5790      5800      5810
              (5734) 5734                                                                                                          5824
SEQ ID NO 11(5734) CTTTCAGGAAAAATTTTGAAAAATGTGTCCAGTAATGCCTGATTGGCCCCTTATCCTAAAGGCTTAAACTGGAGGAAGGAAGCTAAAACTGAG
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
     Consensus(5734)
                                                                                                           Section 64
```

```
                                          5830      5840      5850      5860      5870      5880      5890      5900
              (5825) 5825                                                                                                          5915
SEQ ID NO 11(5825) AAATCTTGCAAATCATTCATTGAGCCAAAAACGTATTAATAGCAAGATCTATCATTATTGACTAGTAGTGTGGCAGGCAGTGCCCTTTTATTTAG
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
     Consensus(5825)
                                                                                                           Section 65
```

```
                                          5930      5940      5950      5960      5970      5980      5990
              (5916) 5916                                                                                                          6006
SEQ ID NO 11(5916) GCAGGGGAGAGTTGATGGGGGGGGCGGGGTTCACCACCATCTTAAAGAGGTGCTATCTCCCTCCTATATAAAATCATGTAAGTCAAGAGAGTAAGG
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
     Consensus(5916)
                                                                                                           Section 66
```

align SEQID#2 against SEQID#11.apr

Section 67

```
                        6010      6020      6030      6040      6050      6060      6070      6080      6097
            (6007) 6007                                                                                        6097
SEQ ID NO 11(6007) AATTGTCTTTGTTTGGTTATATTCAGGGGATTAGAGTATACAGTAGAAGATCCCAAGAAACCTTGGGATCATTTAGACTAAGAAATGCCA
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
   Consensus(6007)
```

Section 68

```
                        6110      6120      6130      6140      6150      6160      6170      6188
            (6098) 6098                                                                                        6188
SEQ ID NO 11(6098) ATACCGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGCCGAGGTGGGCGGATCACAAGGTCAGGAGATTGAGACCGTC
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
   Consensus(6098)
```

Section 69

```
                        6200      6210      6220      6230      6240      6250      6260      6279
            (6189) 6189                                                                                        6279
SEQ ID NO 11(6189) CTGGCTAACGTGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGA
SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
   Consensus(6189)
```

Section 70

```
                    6280      6290      6300      6310      6320      6330      6340      6350      6360      6370
            (6280) 6280
SEQ ID NO 11(6280) GGCGGGAGGCAGGAGAGAATGGTGTGTGAACTCAGGAGGCGGAGCTTGCAGTCAGCCGAGATTGCCCCAATGCACTCCAGCCTGGGCGACAGAACG
SEQ ID NO 2(1939) --------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------------
   Consensus(6280)
```

Section 71

```
                    6380      6390      6400      6410      6420      6430      6440      6450      6461
            (6371) 6371
SEQ ID NO 11(6371) AGACTCCGTCTCAGAACAAAAAGGAAATGCCAATACCAGCAGAAATAGAGCCAAATCATGAACATAAGCTAAACAAATGTTGGCAGT
SEQ ID NO 2(1939) -----------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------
   Consensus(6371)
```

Section 72

```
                    6470      6480      6490      6500      6510      6520      6530      6540      6552
            (6462) 6462
SEQ ID NO 11(6462) GTAGCCTAGTGGTTAAGAGAGCAGACTCTTAACTAGAACACTGCCACTCCATGTCCTCCACTGTAGACCCTCACTGTGGGGTTCTAATTAACC
SEQ ID NO 2(1939) ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
   Consensus(6462)
```

align SEQID#2 against SEQID#11.apr

Section 73

```
                        6553      6560      6570      6580      6590      6600      6610      6620      6630      6643
               (6553) 6553
SEQ ID NO 11(6553) CCTGTTACTTACCAGTGGCAGTCTTAAGGCATTCCTTAAGTTCGTTGTGCCCCAATTTGTTCATCTGTAGAAGGGGTAGGATGACAGTAGT
SEQ ID NO 2(1939) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
    Consensus(6553)
```

Section 74

```
                        6644      6650      6660      6670      6680      6690      6700      6710      6720      6734
               (6644) 6644
SEQ ID NO 11(6644) GTTTACTTTATAGGCTTACTGTGAGCATTAAATGAGTTACTACTGTATTTGTAAAGTGCTTAAAATGCTGCTCCAAAAGAGTTTGTTAAAC
SEQ ID NO 2(1939) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
    Consensus(6644)
```

Section 75

```
                        6735      6740      6750      6760      6770      6780      6790      6800      6810      6825
               (6735) 6735
SEQ ID NO 11(6735) ACTTAAGAACTGATTTACTTGCATCTAAACTGACAGCTCTCAATAACTGGAAATGATCAAGCATAGGCCCTGGAATATAAGCAGGTCTACA
SEQ ID NO 2(1939) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
    Consensus(6735)
```

align SEQID#2 against SEQID#11.apr

Section 76

```
                         6826          6840          6850          6860          6870          6880          6890          6900          6915
           (6826) 6826
SEQ ID NO 11(6826) TGAAGGCAAAAATGTTGTTCGTTCTTTTGTTCAGCCCCTGTGCCTAGATCAATATCTAGTGATCATGCTCAAGAAATATTGTTGAATGAATCAA
  SEQ ID NO 2(1939) -------------------------------------------------------------------------------------------------
 SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------
 SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------------
 SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------------
 SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------------
   Consensus(6826)
```

Section 77

```
                         6917          6930          6940          6950          6960          6970          6980          6990          7007
           (6917) 6917
SEQ ID NO 11(6917) TGAACCTACCGAGGTAGTTACATAAAAGAGTTCTGCATGAGTACAAATCGGGCAAAGTGACCTCCAAGGAAATTTCCACTTTTAGATTCT
  SEQ ID NO 2(1939) ------------------------------------------------------------------------------------------
 SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
 SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
 SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
 SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
   Consensus(6917)
```

Section 78

```
                         7008          7020          7030          7040          7050          7060          7070          7080          7098
           (7008) 7008
SEQ ID NO 11(7008) GTGATTTCCTTAAGGAACTGATAAATTGGTGTGATACAATGGTGCCTATATGATTTGAGAAAAAACTTATTTTCTCTCCCTCT
  SEQ ID NO 2(1939) ----------------------------------------------------------------------------------T-
 SEQ ID NO 13 (306) ----------------------------------------------------------------------------------
 SEQ ID NO 15 (558) ----------------------------------------------------------------------------------
 SEQ ID NO 16   (1) ----------------------------------------------------------------------------------
 SEQ ID NO 17 (367) ----------------------------------------------------------------------------------
   Consensus(7008)
```

align SEQID#2 against SEQID#11.apr

Section 79

```
                7099      7110      7120      7130      7140      7150      7160      7170      7189
        (7099) 7099
SEQ ID NO 11(7099) TTTTTCCTTCCTTCCTTCCTCCCTCCCTTCCTCCCTCCCTCCCTCCCTTCCTTCCTTCTCTTTTCTTTT
SEQ ID NO 2(1940) ---------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------
     Consensus(7099)
```

Section 80

```
                7190      7200      7210      7220      7230      7240      7250      7260      7270      7280
        (7190) 7190
SEQ ID NO 11(7190) CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTTTCTTTGTGCCTTT
SEQ ID NO 2(1940) ---------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------
     Consensus(7190)
```

Section 81

```
                7290      7300      7310      7320      7330      7340      7350      7360      7371
        (7281) 7281
SEQ ID NO 11(7281) CTTTCTTTCTTTCTTTCCTTTCTTTCTGTCCTTTCTTTCTTTCTTTCTGCCTTTCTTTGTTTTTCTTTCTTTCTTTCCTTTCTTTT
SEQ ID NO 2(1940) ---------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------
     Consensus(7281)
```

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align SEQID#2 against SEQID#11.apr

Section 82

```
                         7380      7390      7400      7410      7420      7430      7440      7450      7462
                (7372) 7372
SEQ ID NO 11(7372) TTCCTTTAAGCAGACCATGTCTCTGTTAGATGAATGCCTTTTTCTAGTTAAAAGGTTAAACAGGAAAGTGAAGCACAATTATCAAGGGTCTCC
SEQ ID NO 2(1940) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
     Consensus(7372)
```

Section 83

```
                         7470      7480      7490      7500      7510      7520      7530      7540      7553
                (7463) 7463
SEQ ID NO 11(7463) AGTCATCTCCACATGTTCTTAATCATTATCTTCTTTTACAGTTTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGGCCCT
SEQ ID NO 2(1940) -----------------------------------------TTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGGCCCT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------TTTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGGCCCT
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
     Consensus(7463)                          TTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGGCCCT
```

Section 84

```
                         7560      7570      7580      7590      7600      7610      7620      7630      7644
                (7554) 7554
SEQ ID NO 11(7554) TTATGTGTGTGACAAGTGAAAAATAAGGAAAAGAAAAAACTCAAGTGAAGAAAAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
SEQ ID NO 2(1989) TTATGTGTGTGACAAGTGAAAAATAAGGAAAAGAAAAAACTCAAGTGAAGAAAAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (51) TTATGTGTGTGACAAGTGAAAAATAAGGAAAAGAAAAAACTCAAGTGAAGAAAAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
     Consensus(7554) TTATGTGTGTGACAAGTGAAAAATAAGGAAAAGAAAAAACTCAAGTGAAGAAAAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
```

Section 85

```
                      7645      7650      7660      7670      7680      7690      7700      7710      7720            7735
SEQ ID NO 11(7645) TTCCCACATCACCTGCCTCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTTCATCTTCATCACCCTGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 2(2080)  TTCCCACATCACCTGCCTCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTTCATCTTCATCACCCTGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------------
SEQ ID NO 16 (142) TTCCCACATCACCTGCCTCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTTCATCTTCATCACCCTGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------------
Consensus(7645)    TTCCCACATCACCTGCCTCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTTCATCTTCATCACCCTGTGTGCATGACAGGCCCACCATTCATTTATC
```

Section 86

```
                      7736      7750      7760      7770      7780      7790      7800      7810            7826
SEQ ID NO 11(7736) AGAGCAAAAGGCTCTCCCACTATTCGGTTCACCCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGGATGACCTGCCTCTCACCCTGGGGAG
SEQ ID NO 2(2171)  AGAGCAAAAGGCTCTCCCACTATTCGGTTCACCCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGGATGACCTGCCTCTCACCCTGGGGAG
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------------
SEQ ID NO 16 (233) AGAGCAAAAGGCTCTCCCACTATTCGGTTCACCCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGGATGACCTGCCTCTCACCCTGGGGAG
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------------
Consensus(7736)    AGAGCAAAAGGCTCTCCCACTATTCGGTTCACCCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGGATGACCTGCCTCTCACCCTGGGAG
```

Section 87

```
                      7827      7840      7850      7860      7870      7880      7890      7900            7917
SEQ ID NO 11(7827) CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 2(2262)  CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (324) CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
Consensus(7827)    CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAAGAAAAGACTAACTGCCCCAAAATCTCCC
```

align SEQID#2 against SEQID#11.apr

Section 88

```
                    7918      7930       7940       7950       7960       7970       7980       7990          8008
SEQ ID NO 11(7918)  TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 2(2353)   TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 16 (415)  TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(7918)     TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
```

Section 89

```
                    8009      8020       8030       8040       8050       8060       8070       8080          8099
SEQ ID NO 11(8009)  ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
SEQ ID NO 2(2444)   ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 16 (506)  ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(8009)     ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
```

Section 90

```
                    8100      8110       8120       8130       8140       8150       8160       8170       8180   8190
SEQ ID NO 11(8100)  GCTAGGTGCAAAAATGGAAAAAAATACTTCTAATCAGGTCAAATCACCTCTACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
SEQ ID NO 2(2535)   GCTAGGTGCAAAAATGGAAAAAAATACTTCTAATCAGGTCAAATCACCTCTACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
SEQ ID NO 13 (306)  ---------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ---------------------------------------------------------------------------------------
SEQ ID NO 16 (597)  GCTAGGTGCAAAAATGGAAAAAAATACTTCTAATCAGGTCAAATCACCTCTACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
SEQ ID NO 17 (367)  ---------------------------------------------------------------------------------------
Consensus(8100)     GCTAGGTGCAAAAATGGAAAAAAATACTTCTAATCAGGTCAAATCACCTCTACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
```

align SEQID#2 against SEQID#11.apr

Section 91

```
                                 8200      8210      8220      8230      8240      8250      8260      8270      8281
            (8191) 8191
SEQ ID NO 11(8191) TATATTCAGTCATAGTGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 2(2626) TATATTCAGTCATAGTGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (688) TATATTCAGTCATAGTGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
Consensus(8191) TATATTCAGTCATAGTGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
```

Section 92

```
                                 8290      8300      8310      8320      8330      8340      8350      8360      8372
            (8282) 8282
SEQ ID NO 11(8282) CAGAAATTGATTTTTGGAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 2(2717) CAGAAATTGATTTTTGGAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (779) CAGAAATTGATTTTTGGAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
Consensus(8282) CAGAAATTGATTTTTGGAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
```

Section 93

```
                                 8380      8390      8400      8410      8420      8430      8440      8450      8463
            (8373) 8373
SEQ ID NO 11(8373) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCTTAACGGAAGTTTATGCCTGTTTTCTC
SEQ ID NO 2(2808) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCTTAACGGAAGTTTATGCCTGTTTTCTC
SEQ ID NO 13 (306) -------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------
SEQ ID NO 16 (870) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCTTAACGGAAGTTTATGCCTGTTTTCTC
SEQ ID NO 17 (367) -------------------------------------------------------------------------------
Consensus(8373) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCTTAACGGAAGTTTATGCCTGTTTTCTC
```

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align SEQID#2 against SEQID#11.apr

Section 94

```
                      8464      8470      8480      8490      8500      8510      8520      8530      8540      8554
SEQ ID NO 11(8464) TTCACATACCCCAACAGTTACAAATGGTTGTTATTAATTAAGCATCTTTATTTTGTGGCCCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 2(2899) TTCACATACCCCAACAGTTACAAATGGTTGTTATTAATTAAGCATCTTTATTTTGTGGCCCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 13 (306) ----------
SEQ ID NO 15 (558) ----------
SEQ ID NO 16 (961) TTCACATACCCCAACAGTTACAAATGGTTGTTATTAATTAAGCATCTTTATTTTGTGGCCCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 17 (367) ----------
  Consensus(8464) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCTCTGATTACATGGTCCCCTAAATTTTGACCT
```

Section 95

```
                      8555      8560      8570      8580      8590      8600      8610      8620      8630      8645
SEQ ID NO 11(8555) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATAATTTGTTTATGTGTCAATATCTTAGCATGTCAATTAAGACAGAGGTC
SEQ ID NO 2(2990) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATAATTTGTTTATGTGTCAATATCTTAGCATGTCAATTAAGACAGAGGTC
SEQ ID NO 13 (306) ----------
SEQ ID NO 15 (558) ----------
SEQ ID NO 16(1052) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATAATTTGTTTATGTGTCAATATCTTAGCATGTCAATTAAGACAGAGGTC
SEQ ID NO 17 (367) ----------
  Consensus(8555) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATAATTTGTTTATGTGTCAATATCTTAGCATGTCAATTAAGACAGAGGTC
```

Section 96

```
                      8646      8660      8670      8680      8690      8700      8710      8720      8736
SEQ ID NO 11(8646) TTAACGTTCTCTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTTA
SEQ ID NO 2(3081) TTAACGTTCTCTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTTA
SEQ ID NO 13 (306) ----------
SEQ ID NO 15 (558) ----------
SEQ ID NO 16(1143) TTAACGTTCTCTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTTA
SEQ ID NO 17 (367) ----------
  Consensus(8646) TTAACGTTCTCTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTTA
```

```
                                                                                                Section 97
              8737      8750      8760      8770      8780      8790      8800      8810    8827
(8737)         8737
SEQ ID NO 11(8737)  GTCCAGGTCTGTCTCTACAGCCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 2(3172)   GTCCAGGTCTGTCTACAGCCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 16(1234)  GTCCAGGTCTGTCTCTACAGCCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(8737)     GTCCAGGTCTGTCTCTACAGCCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA

                                                                                                Section 98
              8828      8840      8850      8860      8870      8880      8890      8900    8918
(8828)         8828
SEQ ID NO 11(8828)  GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 2(3263)   GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 16(1325)  GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(8828)     GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA

                                                                                                Section 99
              8919      8930      8940      8950      8960      8970      8980      8990    9009
(8919)         8919
SEQ ID NO 11(8919)  TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 2(3354)   TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 16(1416)  TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(8919)     TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTAACTCTTTATTTACAAAAGCAG
```

align SEQID#2 against SEQID#11.apr

Section 100

```
                (9010) 9010      9020      9030      9040      9050      9060      9070      9080      9090      9100
SEQ ID NO 11(9010) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCTGACCCTGACCTGACCCTGACCTGACCTTATATTTATGGACAACACATTTAGACTGTGACT
SEQ ID NO 2(3445)  GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCTGACCTGACCCTGACCTGACCTTATATTTATGGACAACACATTTAGACTGTGACT
SEQ ID NO 13 (306)  ----
SEQ ID NO 15 (558)  ----
SEQ ID NO 16(1507) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCTGACCCTGACCTGACCTTATATTTATGGACAACACATTTAGACTGTGACT
SEQ ID NO 17 (367)  ----
Consensus(9010)    GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCTGACCTGAGAAAATCTTATATTTATGGACAACATTTAGACTGTGACT
```

Section 101

```
                (9101) 9101      9110      9120      9130      9140      9150      9160      9170      9180      9191
SEQ ID NO 11(9101) TGCCAAGTAAGACAAGAGAGCTCTGTCAACTGAAGGTCAAGGTCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
SEQ ID NO 2(3536)  TGCCAAGTAAGACAAGAGAGCTCTGTCAACTGAAGGTCAAGGTCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
SEQ ID NO 13 (306)  ----
SEQ ID NO 15 (558)  ----
SEQ ID NO 16(1598) TGCCAAGTAAGACAAGAGAGCTCTGTCAACTGAAGGTCAAGGTCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
SEQ ID NO 17 (367)  ----
Consensus(9101)    TGCCAAGTAAGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGTCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
```

Section 102

```
                (9192) 9192      9200      9210      9220      9230      9240      9250      9260      9270      9282
SEQ ID NO 11(9192) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGCTTAGGCA
SEQ ID NO 2(3627)  AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGCTTAGGCA
SEQ ID NO 13 (306)  ----
SEQ ID NO 15 (558)  ----
SEQ ID NO 16(1689) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGCTTAGGCA
SEQ ID NO 17 (367)  ----
Consensus(9192)    AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGCTTAGGCA
```

align SEQID#2 against SEQID#11.apr

```
                       (9283) 9283         9290       9300       9310       9320       9330       9340       9350       9360                 9373
SEQ ID NO 11(9283) CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAAGTATTTCCTCA
SEQ ID NO 2(3718)  CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAAGTATTTCCTCA
SEQ ID NO 13 (306) ------------------
SEQ ID NO 15 (558) ------------------
SEQ ID NO 16(1780) CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAAGTATTTCCTCA
SEQ ID NO 17 (367) ------------------
Consensus(9283)    CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAAGTATTTCCTCA
```

```
                       (9374) 9374         9380       9390       9400       9410       9420       9430       9440                 9458
SEQ ID NO 11(9374) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
SEQ ID NO 2(3809)  GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
SEQ ID NO 13 (306) ------------------
SEQ ID NO 15 (558) ------------------
SEQ ID NO 16(1871) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
SEQ ID NO 17 (367) ------------------
Consensus(9374)    GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
```

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EXHIBIT C

align SEQID#4 against SEQID#11.apr

Section 1

									91
	10	20	30	40	50	60	70	80	

```
                     1                                                                         91
SEQ ID NO 11   (1)  ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCCTCTCACCAATAAGGGCAGGCATCATCCAATCTGTCGAAAGCTTGAATAAAACAAAAAG
SEQ ID NO 4    (1)  -----------------------------------------------------------------------------------------
SEQ ID NO 13   (1)  ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCCTCTCACCAATAAGGGCAGGCATCATCCAATCTGTCGAAAGCTTGAATAAAACAAAAAG
SEQ ID NO 16   (1)  -----------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  -----------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  -----------------------------------------------------------------------------------------
Consensus      (1)
```

Section 2

	100	110	120	130	140	150	160	170	182

```
                     92                                                                       182
SEQ ID NO 11  (92)  AGGAAGGGAAAAATTTGCTTCTTTTCTTCTTGATCTAGTATATCATCTTCCTGCCCTTGGATGTGAGTGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 4    (1)  --------------------------------------------------------GGATGTGAGTGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 13  (92)  AGGAAGGGAAAAATTTGCTTCTTTTCTTCTTGATCTAGTATATCATCTTCCTGCCCTTGGATGTGAGTGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 16   (1)  -----------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  -----------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  -----------------------------------------------------------------------------------------
Consensus     (92)                                                          GGATGTGAGTGGGCCTTCAGACTTAAACCAGG
```

Section 3

	190	200	210	220	230	240	250	260	273

```
                    183                                                                       273
SEQ ID NO 11 (183)  AGTTACACCTTTGGCTTCCCTGGTTCCCTGGTTCTCCAGTTCTTGGACTGAATTACACTGCCCAGGTTCTCCAGCTTGCCAGATGGC
SEQ ID NO 4   (33)  AGTTACACCTTTGGCTTCCCTGGTTCCCTGGTTCTCCAGTTCTTGGACTGAATTACACTGCCCAGGTTCTCCAGCTTGCCAGATGGC
SEQ ID NO 13 (183)  AGTTACACCTTTGGCTTCCCTGGTTCCCTGGTTCTCCAGTTCTTGGACTGAATTACACTGCCCAGGTTCTCCAGCTTGCCAGATGGC
SEQ ID NO 16   (1)  -----------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  -----------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  -----------------------------------------------------------------------------------------
Consensus    (183)  AGTTACACCTTTGGCTTCCCTGGTTCCCTGGTTCTCCAGTTCTTGGACTGAATTACACTGCCCAGGTTCTCCAGCTTGCCAGATGGC
```

align SEQID#4 against SEQID#11.apr

Section 4

| | | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 364 |

SEQ ID NO 11 (274) 274 AGATCATGGGACTTCTTGGCCTCCATAATTGTGTGAGTCAATTTCCATTTATTTACATATCCAGTTATGCATTGCTTAACAATGGGAGACA
SEQ ID NO 4 (124) AGATCATGGGACTTCTTGGCCTCCATAATTGTGTGAGTCAATTTCCATTTATTTACATATCCAGTTATGCATTGCTTAACAATGGGAGACA
SEQ ID NO 13 (274) AGATCATGGGACTTCTTGGCCTCCATAATTGT---
SEQ ID NO 16 (1) ---
SEQ ID NO 15 (1) ---
SEQ ID NO 17 (1) ---
Consensus (274) AGATCATGGGACTTCTTGGCCTCCATAATTGT

Section 5

| | | 370 | 380 | 390 | 400 | 410 | 420 | 430 | 440 | 455 |

SEQ ID NO 11 (365) 365 GGTTCTGAGAAATGCATTGTTAAGTGATTTCATCATTGTGCAAACATCATAGAGTGTAACACCACAAACCTGGACAGCATAGACTACTACA
SEQ ID NO 4 (215) GGTTCTGAGAAATGCATTGTTAAGTGATTTCATCATTGTGCAAACATCATAGAGTGTAACACCACAAACCTGGACAGCATAGACTACTACA
SEQ ID NO 13 (306) ---
SEQ ID NO 16 (1) ---
SEQ ID NO 15 (1) ---
SEQ ID NO 17 (1) ---
Consensus (365)

Section 6

| | | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 546 |

SEQ ID NO 11 (456) 456 CATCCTAGGCTACATGGTGTAGCTTGTAACCCTCATGATAAGTATGTATAACATCATGATAAGTATGTATCTACCATATCTAAATGTAG
SEQ ID NO 4 (306) CATCCTAGGCTACATGGTGTAGCTTGTAACCCTCATGATAAGTATGTATAACATCATGATAAGTATGTATCTACCATATCTAAATGTAG
SEQ ID NO 13 (306) ---
SEQ ID NO 16 (1) ---
SEQ ID NO 15 (1) ---
SEQ ID NO 17 (1) ---
Consensus (456)

align SEQID#4 against SEQID#11.apr

Section 7

```
                              560        570        580        590        600        610        620      637
             (547) 547 AAAAGGTACAGTAAAAAATATGGTATAATCTTATGGGATCACCATCATATATGCAATCCTTTGTAGACTGAAATGTCATTGTGTAGTGCATG
SEQ ID NO 11 (547) AAAAGGTACAGTAAAAAATATGGTATAATCTTATGGGATCACCATCATATATGCAATCCTTTGTAGACTGAAATGTCATTGTGTAGTGCATG
SEQ ID NO 4  (397) AAAAGGTACAGTAAAAAATATGGTATAATCTTATGGGATCACCATCATATATGCAATCCTTTGTAGACTGAAATGTCATTGTGTAGTGCATG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus    (547)
```

Section 8

```
                              650        660        670        680        690        700        710      728
             (638) 638 ACTGTATACGCACACATACACACACACACAAAAATACTATTGGTTCTTTTTCTCTGAAGAGCCCTAATACAATATGTTATACATTTATA
SEQ ID NO 11 (638) ACTGTATACGCACACATACACACACACACAAAAATACTATTGGTTCTTTTTCTCTGAAGAGCCCTAATACAATATGTTATACATTTATA
SEQ ID NO 4  (488) ACTGTATACGCACACATACACACACACACAAAAATACTATTGGTTCTTTTTCTCTGAAGAGCCCTAATACAATATGTTATACATTTATA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus    (638)
```

Section 9

```
                              740        750        760        770        780        790        800      819
             (729) 729 TTGACTCCTATTTCAAAAATTTATGGTTTTGGTGAAACATATGTGGAGATGGGGCATAGGTGTGTGAACTGGGATAGTGTCCTGCTGATGAAT
SEQ ID NO 11 (729) TTGACTCCTATTTCAAAAATTTATGGTTTTGGTGAAACATATGTGGAGATGGGGCATAGGTGTGTGAACTGGGATAGTGTCCTGCTGATGAAT
SEQ ID NO 4  (579) TTGACTCCTATTTCAAAAATTTATGGTTTTGGTGAAACATATGTGGAGATGGGGCATAGGTGTGTGAACTGGGATAGTGTCCTGCTGATGAAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus    (729)
```

align SEQID#4 against SEQID#11.apr

Section 10

```
                       820       830       840       850       860       870       880       890       900       910
SEQ ID NO 11 (820)(820) GGGTGGGGAGGCATCATTTGGGACAAGCCCAGGGCATCAGCTTATAGATATCAAGAGCTCAACAAGAGCTCAACAACCTCCCACA
SEQ ID NO 4  (670)(670) GGGTGGGGAGGCATCATTTGGGACAAGCCCAGGGCATCAGCTTATAGATATCAAGAGCTCAACAAGAGCTCAACAACCTCCCACA
SEQ ID NO 13 (306)(306) --------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  (1) --------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  (1) --------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  (1) --------------------------------------------------------------------------------------
Consensus    (820)
```

Section 11

```
                       920       930       940       950       960       970       980       990      1001
SEQ ID NO 11 (911)(911) AGACCCTCTCAGAAGTTGAGAAACTGCTAAAAGTTTCTTTATGACAGATGACATTTATGGATAAAAATAGGGATTAGCAGGATTCTTTAAATA
SEQ ID NO 4  (761)(761) AGACCCTCTCAGAAGTTGAGAAACTGCTAAAAGTTTCTTTATGACAGATGACATTTATGGATAAAAATAGGGATTAGCAGGATTCTTTAAATA
SEQ ID NO 13 (306)(306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  (1) ---------------------------------------------------------------------------------------------
Consensus    (911)
```

Section 12

```
                        1010      1020      1030      1040      1050      1060      1070      1080      1092
SEQ ID NO 11 (1002)(1002) CTTTCGAACACTAACCTTCATTTCTACCAGGCAGTGGGGCCCCAAGTGCAGGGCCATAGGAGAAGTACAAGTCTCGGGAGATACTAGGCTGCAC
SEQ ID NO 4   (852)(852) CTTTCGAACACTAACCTTCATTTCTACCAGGCAGTGGGGCCCCAAGTGCAGGGCCATAGGAGAAGTACAAGTCTCGGGAGATACTAGGCTGCAC
SEQ ID NO 13  (306)(306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16    (1)  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15    (1)  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17    (1)  (1) ---------------------------------------------------------------------------------------------
Consensus   (1002)
```

align SEQID#4 against SEQID#11.apr

Section 13

```
                              1100      1110      1120      1130      1140      1150      1160      1170      1183
            (1093) 1093
SEQ ID NO 11(1093) TGTCTGTAGAGAATCCTGAAAAAATAATAGAGTCACTGAAATGCAGTTTGGTATAATTATTGCCATGCATCATAATTCTAAATCATACTAGT
SEQ ID NO 4 (943)  TGTCTGTAGAGAATCCTGAAAAAATAATAGAGTCACTGAAATGCAGTTTGGTATAATTATTGCCATGCATCATAATTCTAAATCATACTAGT
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)  --------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)  --------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)  --------------------------------------------------------------------------------------------
    Consensus(1093)
```

Section 14

```
                              1190      1200      1210      1220      1230      1240      1250      1260      1274
            (1184) 1184
SEQ ID NO 11(1184) GGTCAAAATACTCTTCCCTGAAAAAACATTTTCTTGGTTTGAATTCTAAAATAATTGTTGGTGGTCACCACTGAGCTTTTAAATATATAAAATAC
SEQ ID NO 4(1034)  GGTCAAAATACTCTTCCCTGAAAAAACATTTTCTTGGTTTGAATTCTAAAATAATTGTTGGTGGTCACCACTGAGCTTTTAAATATATAAAATAC
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)  -----------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)  -----------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)  -----------------------------------------------------------------------------------------------
    Consensus(1184)
```

Section 15

```
                              1280      1290      1300      1310      1320      1330      1340      1350      1365
            (1275) 1275
SEQ ID NO 11(1275) TTTCAAGTTGCATATTTTTATTACCTGTTCCTTAACAAACATTGAATTCAACATGAAAATGATTATGGGAAACATTCGGGTATACAGTCC
SEQ ID NO 4(1125)  TTTCAAGTTGCATATTTTTATTACCTGTTCCTTAACAAACATTGAATTCAACATGAAAATGATTATGGGAAACATTCGGGTATACAGTCC
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)  --------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)  --------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)  --------------------------------------------------------------------------------------------
    Consensus(1275)
```

align SEQID#4 against SEQID#11.apr

```
                                      1380      1390      1400      1410      1420      1430      1440      1456
         (1366) 1366
SEQ ID NO 11(1366) CTGACTCTCTTAAGGACTCAGGTAAATACTTAGGGTATTTCATGGCCCTAGTCTTTGGGGTACCACATGTTTCTTCTTCTTCAAATCACAGATTCA
SEQ ID NO 4(1216) CTGACTCTCTTAAGGACTCAGGTAAATACTTAGGGTATTTCATGGCCCTAGTCTTTGGGGTACCACATGTTTCTTCTTCTTCAAATCACAGATTCA
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------------
   Consensus(1366)
```

```
                                      1470      1480      1490      1500      1510      1520      1530      1547
         (1457) 1457
SEQ ID NO 11(1457) AAATCAAGAATGATAACACAGTGATTGTGTAGACAAAATAAGTGAACCAAAATTGCTTGCTTCCTGTCATTCTATGGAACCACTGAGAGTTT
SEQ ID NO 4(1307) AAATCAAGAATGATAACACAGTGATTGTGTAGACAAAATAAGTGAACCAAAATTGCTTGCTTCCTGTCATTCTATGGAACCACTGAGAGTTT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------------
   Consensus(1457)
```

```
                                      1560      1570      1580      1590      1600      1610      1620      1638
         (1548) 1548
SEQ ID NO 11(1548) TTACTTGTGCTTAAAAATTTGAATAGTAAAAACAGAGTGTCAACTTCATGCTGGAATATTTTGGCTTTTAGACCACAATTTAAGTACATG
SEQ ID NO 4(1398) TTACTTGTGCTTAAAAATTTGAATAGTAAAAACAGAGTGTCAACTTCATGCTGGAATATTTTGGCTTTTAGACCACAATTTAAGTACATG
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------------
   Consensus(1548)
```

align SEQID#4 against SEQID#11.apr

```
                                                                                        Section 19
                    1650      1660      1670      1680      1690      1700      1710           1729
             (1639) 1639
SEQ ID NO 11(1639) AAGTATTTTTACAAGACTAAGTAACATCACTGAAATTACAGCTTTCTTCTTTCTTTTAAAACTGGTATTGTTATAAAACTAAAGAGCGAATCA
SEQ ID NO 4(1489) AAGTATTTTTACAAGACTAAGTAACATCACTGAAATTACAGCTTTCTTCTTTCTTTTAAAACTGGTATTGTTATAAAACTAAAGAGCGAATCA
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) -----------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) -----------------------------------------------------------------------------------------------
Consensus(1639)

                                                                                        Section 20
                    1740      1750      1760      1770      1780      1790      1800      1810   1820
             (1730) 1730
SEQ ID NO 11(1730) AGAAAAGCATAATTATTACTGATTATTACAGGATTATTACTGAAAAAGAAATGTACGGAATAGAGGAGGAGTTAACAAATGATCCAC
SEQ ID NO 4(1580) AGAAAAGCATAATTATTACTGATTATTACAGGATTATTACTGAAAAAGAAATGTACGGAATAGAGGAGGAGTTAACAAATGATCCAC
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------
SEQ ID NO 16  (1) -------------------------------------------------------------------------------------
SEQ ID NO 15  (1) -------------------------------------------------------------------------------------
SEQ ID NO 17  (1) -------------------------------------------------------------------------------------
Consensus(1730)

                                                                                        Section 21
                    1830      1840      1850      1860      1870      1880      1890      1900   1911
             (1821) 1821
SEQ ID NO 11(1821) TCTGGGTGTTGAAAAACACCAATAAGCCTGCTTCCAGGAAGTGCCTAAGACAGAGCTGGCTCAGCTGCTGGGTCACAGCATGTAAGGAAAC
SEQ ID NO 4(1671) TCTGGGTGTTGAAAAACACCAATAAGCCTGCTTCCAGGAAGTGCCTAAGACAGAGCTGGCTCAGCTGCTGGGTCACAGCATGTAAGGAAAC
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15  (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17  (1) ---------------------------------------------------------------------------------------------
Consensus(1821)
```

align SEQID#4 against SEQID#11.apr

Section 22

```
                         1920      1930      1940      1950      1960      1970      1980      1990      2002
                (1912) 1912
SEQ ID NO 11(1912) TGCTGGGCTACACATGCCACCATCCCTCAGTTGTCCAGATAGATAATCCCATAGCCCCATGGGGAAATAATCTTTAATTATGATATAGCTGACA
SEQ ID NO 4(1762)  TGCTGGGCTACACATGCCACCATCCCTCAGTTGTCCAGATAGATAATCCCATAGCCCCATGGGGAAATAATCTTTAATTATGATATAGCTGACA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------------
    Consensus(1912)
```

Section 23

```
                         2010      2020      2030      2040      2050      2060      2070      2080      2093
                (2003) 2003
SEQ ID NO 11(2003) CCATTCAAAGCACTATGCTAAGTCCTTTATGTGAATTAACTTTTGTCAAATTTATTTTCATAAATAACCCAAATATGTATACCACTATTA
SEQ ID NO 4(1853)  CCATTCAAAGCACTATGCTAAGTCCTTTATGTGAATTAACTTTTGTCAAATTTATTTTCATAAATAACCCAAATATGTATACCACTATTA
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ---------------------------------------------------------------------------------------------
    Consensus(2003)
```

Section 24

```
                         2100      2110      2120      2130      2140      2150      2160      2170      2184
                (2094) 2094
SEQ ID NO 11(2094) TCCTACCTTAAAGAGGAGAAACTGAGCTCCTAAAGTTTAAATATCTAACCCAAGTTAAGACTGCTAGTCACCCTAGGCTATTAACTCAGGC
SEQ ID NO 4(1944)  TCCTACCTTAAAGAGGAGAAACTGAGCTCCTAAAGTTTAAATATCTAACCCAAGTTAAGACTGCTAGTCACCCTAGGCTATTAACTCAGGC
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------------
    Consensus(2094)
```

align SEQID#4 against SEQID#11.apr

```
                                                                                            Section 25
              2185   2190      2200      2210      2220      2230      2240      2250      2260      2275
(2185) 2185)
SEQ ID NO 11(2185) AGTCTAACTCAGGTATATAACATTATGCTACTGTTTGCAGCTTTGACTATGCCTGAATTATAAACGTCATGCTATCTAACTAAAAAGCTAA
SEQ ID NO 4(2035) AGTCTAACTCAGGTATATAACATTATGCTACTGTTTGCAGCTTTGACTATGCCTGAATTATAAACGTCATGCTATCTAACTAAAAAGCTAA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus(2185)

                                                                                            Section 26
              2276      2290      2300      2310      2320      2330      2340      2350      2366
(2276) 2276)
SEQ ID NO 11(2276) GGGAAATAAAATGAGCCATAGGGCTCAATTTCATAAAAGGAGAAAATACTGGGGAAAAGTGATAATGCAGAGTTTAAAATATTTTGTA
SEQ ID NO 4(2126) GGGAAATAAAATGAGCCATAGGGCTCAATTTCATAAAAGGAGAAAATACTGGGGAAAAGTGATAATGCAGAGTTTAAAATATTTTGTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus(2276)

                                                                                            Section 27
              2367      2380      2390      2400      2410      2420      2430      2440      2457
(2367) 2367)
SEQ ID NO 11(2367) AAAGTGCCAGAGATTGAGTATAACAAGTGTGACCAAAAAAAAAAAAAAAAAAAGAGGAAGAAGTAAAAAAAAGAGGGAGGTCTGAGA
SEQ ID NO 4(2217) AAAGTGCCAGAGATTGAGTATAACAAGTGTGACCAAAAAAAAAAAAAAAAAAAGAGGAAGAAGTAAAAAAAAGAGGGAGGTCTGAGA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
Consensus(2367)
```

align SEQID#4 against SEQID#11.apr

Section 28

```
                                   2470      2480      2490      2500      2510      2520      2530      2548
           (2458) 2458
SEQ ID NO 11(2458) AATAGAAAATATCAGAGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATTCAGATTCCACAGAAATCACATTTCT
SEQ ID NO 4(2308) AATAGAAAATATCAGAGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATTCAGATTCCACAGAAATCACATTTCT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
    Consensus(2458)
```

Section 29

```
                                   2560      2570      2580      2590      2600      2610      2620      2639
           (2549) 2549
SEQ ID NO 11(2549) TTTTTTACCAACTAAGGAAAAATAACACTTGACCTAACATTCATTGCAGTTAGCTAAAGGATGCTAGAAAAACTATGTTGCAGTGGTTTG
SEQ ID NO 4(2399) TTTTTTACCAACTAAGGAAAAATAACACTTGACCTAACATTCATTGCAGTTAGCTAAAGGATGCTAGAAAAACTATGTTGCAGTGGTTTG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
    Consensus(2549)
```

Section 30

```
                                   2650      2660      2670      2680      2690      2700      2710      2720  2730
           (2640) 2640
SEQ ID NO 11(2640) CTCTAATTCTTCAGGAATAGAGAGAAAGTGACAAAAAGATCAGAGAAGAAGAGAAGAGAAGAAACTATCAGAAAATACAGAATTGGAGTAGGA
SEQ ID NO 4(2490) CTCTAATTCTTCAGGAATAGAGAGAAAGTGACAAAAAGATCAGAGAAGAAGAGAAGAGAAGAAACTATCAGAAAATACAGAATTGGAGTAGGA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
    Consensus(2640)
```

align SEQID#4 against SEQID#11.apr

Section 31

```
                              2740      2750      2760      2770      2780      2790      2800      2810      2821
             (2731) 2731
SEQ ID NO 11(2731) TATAAACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACTTCAGTTGGTCCCTGGAACAGCAGCATCAGAA
SEQ ID NO 4(2581) TATAAACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACTTCAGTTGGTCCCTGGAACAGCAGCATCAGAA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(2731)
```

Section 32

```
                              2830      2840      2850      2860      2870      2880      2890      2900      2912
             (2822) 2822
SEQ ID NO 11(2822) TCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGGTCCCCATCCCAGACTCACTGAATCAGAATATAAATACTGACAAGATGCCCCGGGAT
SEQ ID NO 4(2672) TCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGGTCCCCATCCCAGACTCACTGAATCAGAATATAAATACTGACAAGATGCCCCGGGAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(2822)
```

Section 33

```
                              2920      2930      2940      2950      2960      2970      2980      2990      3003
             (2913) 2913
SEQ ID NO 11(2913) TCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGATTGTTTCTGCAACTTAGTATTTCGAGTTTCTGAGTTTCCCAAGGAAGAAAAC
SEQ ID NO 4(2763) TCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGATTGTTTCTGCAACTTAGTATTTCGAGTTTCTGAGTTTCCCAAGGAAGAAAAC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(2913)
```

align SEQID#4 against SEQID#11.apr

Section 34

```
                     (3004) 3004      3010      3020      3030      3040      3050      3060      3070      3080      3094
SEQ ID NO 11(3004) CCAGGCCTTAGCTTCTCGGCAGACTTGTGTTTCTCCTTTACTTACTAGCTGCATGACTCATGAGCAAGGAAATCAAACTTTATGTGCCTGAG
SEQ ID NO 4(2854) CCAGGCCTTAGCTTCTCGGCAGACTTGTGTTTCTCCTTTACTTACTAGCTGCATGACTCATGAGCAAGGAAATCAAACTTTATGTGCCTGAG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(3004)
```

Section 35

```
                     (3095) 3095      3100      3110      3120      3130      3140      3150      3160      3170      3185
SEQ ID NO 11(3095) TTTCCTCATCTATAAAATGGAGACTATAATAATCATCTCCTAGGCTTGTGTTTGAGGATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
SEQ ID NO 4(2945) TTTCCTCATCTATAAAATGGAGACTATAATAATCATCTCCTAGGCTTGTGTTTGAGGATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) --------------------------------------------------ATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
   Consensus(3095)                                                      ATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
```

Section 36

```
                     (3186) 3186      3200      3210      3220      3230      3240      3250      3260      3276
SEQ ID NO 11(3186) CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
SEQ ID NO 4(3036) CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17  (36) CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
   Consensus(3186) CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
```

align SEQID#4 against SEQID#11.apr

Section 37

```
                              3290      3300      3310      3320      3330      3340      3350      3367
            (3277) 3277
SEQ ID NO 11(3277) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACAGAATACGATTTAGCAAATTACTTCTTAAGATATATTTACATTTCTA
SEQ ID NO 4(3127) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACAGAATACGATTTAGCAAATTACTTCTTAAGATATATTTACATTTCTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------
SEQ ID NO 17 (127) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACAGAATACGATTTAGCAAATTACTTCTTAAGATATATTTACATTTCTA
Consensus(3277) GAAATAAAATAAGCTGATTATTATTTATTTTCTCAAAACAACAGAATACGATTTAGCAAATTACTTCTTAAGATATATTTACATTTCTA
```

Section 38

```
                              3380      3390      3400      3410      3420      3430      3440      3458
            (3368) 3368
SEQ ID NO 11(3368) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGGTAAAAAACATATTAT
SEQ ID NO 4(3218) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGGTAAAAAACATATTAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------
SEQ ID NO 17 (218) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGGTAAAAAACATATTAT
Consensus(3368) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGGTAAAAAACATATTAT
```

Section 39

```
                              3470      3480      3490      3500      3510      3520      3530      3549
            (3459) 3459
SEQ ID NO 11(3459) TTATTCTACGTTTTTGTCCAAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTTGGTAATGTAAAAACAAACTCAGTACACAGTAGTATTCAGTA
SEQ ID NO 4(3309) TTATTCTACGTTTTTGTCCAAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTTGGTAATGTAAAAACAAACTCAGTACACAGTAGTATTCAGTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------
SEQ ID NO 17 (309) TTATTCTACGTTTTTGTCCAAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTTGGTAA-------------------------
Consensus(3459) TTATTCTACGTTTTTGTCCAAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTTGGTAA
```

align SEQID#4 against SEQID#11.apr

Section 40

```
                       3550      3560      3570      3580      3590      3600      3610      3620      3630      3640
SEQ ID NO 11(3550) CAGTATTTAAGCCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAAGCAAATTTGTGTGAGATATCGTAGATGGAAGTA
SEQ ID NO 4(3400) CAGTATTTAAGCCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAAGCAAATTTGTGTGAGATATCGTAGATGGAAGTA
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(3550)
```

Section 41

```
                       3641      3650      3660      3670      3680      3690      3700      3710      3720      3731
SEQ ID NO 11(3641) AATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACCTCTGTGTGTGTATGTGTGTGTGTGACAGAGAGTGTGTGTGAGAGAGAG
SEQ ID NO 4(3491) AATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACCTCTGTGTGTGTATGTGTGTGTGTGACAGAGAGTGTGTGTGAGAGAGAG
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(3641)
```

Section 42

```
                       3732      3740      3750      3760      3770      3780      3790      3800      3810      3822
SEQ ID NO 11(3732) ACAGAGAGATACGCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAGTTTCTAAAGAAAATGAGATCATAACAAAAGC
SEQ ID NO 4(3582) ACAGAGAGATACGCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAGTTTCTAAAGAAAATGAGATCATAACAAAAGC
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ---------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------
     Consensus(3732)
```

align SEQID#4 against SEQID#11.apr

Section 43

```
                   3830        3840        3850        3860        3870        3880        3890        3900
         (3823) 3823                                                                                                    3913
SEQ ID NO 11(3823) CCTCTTTATGACTATCTCTTTATCAGGGGCAAAAAGGAAGAGACAAAACAGCATGAAATGAGACCAAGTGATGAGACCAAGTGATGAAAATTCATTCACAA
SEQ ID NO 4(3673) CCTCTTTATGACTATCTCTTTATCAGGGGCAAAAAGGAAGAGACAAAACAGCATGAAATGAGACCAAGTGATGAGACCAAGTGATGAAAATTCATTCACAA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) --------------------------GGGCAAAAAGGAAGAGACAAAACAGCATGAAATGAGACCAAGTGATGAGACCAAGTGATGAAAATTCATTCACAA
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
Consensus(3823)                            GGGCAAAAAGGAAGAGACAAAACAGCATGAAATGAGACCAAGTGATGAGACCAAGTGATGAAAATTCATTCACAA
```

Section 44

```
                   3920        3930        3940        3950        3960        3970        3980        3990
         (3914) 3914                                                                                                    4004
SEQ ID NO 11(3914) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 4(3764) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15  (67) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------
Consensus(3914) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
```

Section 45

```
                   4010        4020        4030        4040        4050        4060        4070        4080
         (4005) 4005                                                                                                    4095
SEQ ID NO 11(4005) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAAGCATTCGGGAAAAATTCAAAAGAATAAAATAT
SEQ ID NO 4(3855) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAAGCATTCGGGAAAAATTCAAAAGAATAAAATAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (158) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAAGCATTCGGGAAAAATTCAAAAGAATAAAATAT
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
Consensus(4005) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAAGCATTCGGGAAAAATTCAAAAGAATAAAATAT
```

Section 46

```
                          4110       4120       4130       4140       4150       4160       4170              4185
             (4096) 4096
SEQ ID NO 11(4096) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 4(3946) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------
SEQ ID NO 15 (249) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------
  Consensus(4096) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
```

Section 47

```
                          4200       4210       4220       4230       4240       4250       4260              4277
             (4187) 4187
SEQ ID NO 11(4187) ATAGAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCGAGATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 4(4037) ATAGAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCGAGATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 13 (306) --------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------
SEQ ID NO 15 (340) ATAGAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCGAGATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 17 (367) --------------------------------------------------------------------------------
  Consensus(4187) ATAGAAAACCCACCTGACTTGTTAATATTTTTGTTTGGTCCCAGGGACTCAGATTCTCAAGCCAAATTCTTTGAATGATCTTTGGCAAATGTCT
```

Section 48

```
                          4290       4300       4310       4320       4330       4340       4350              4368
             (4278) 4278
SEQ ID NO 11(4278) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
SEQ ID NO 4(4128) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (431) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
  Consensus(4278) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
```

align SEQID#4 against SEQID#11.apr

Section 49

```
                         4380      4390      4400      4410      4420      4430      4440                4459
              (4369) 4369                                                                                          
SEQ ID NO 11(4369) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAAGTAAGTACTCTGTGAGTGTGAAAAATTCTTAAAGGACACCCTCTTTTACAAACTCA
SEQ ID NO 4(4219) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAAA----------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (522) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAA-----------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
  Consensus(4369) ATACGTATGGCACCCTAAAAACTGTATTAGAAAAAAAA
```

Section 50

```
                         4470      4480      4490      4500      4510      4520      4530      4540      4550
              (4460) 4460                                                                                          
SEQ ID NO 11(4460) CAAAAACAGCCTTTGGAATACCCACATGAAGTAGCTGTGTTGTTATTGCTTTCTATATACCTACATCTTGTCTATTATAAAAAGACTGGTTTT
SEQ ID NO 4(4255) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
  Consensus(4460)
```

Section 51

```
                         4560      4570      4580      4590      4600      4610      4620      4630      4641
              (4551) 4551                                                                                          
SEQ ID NO 11(4551) TGGCAGGTGTGGTGGCTCACACCTGTAATTCCAGCACCTTGGGAGGCCAAGGCGGGCGGATCACCTGAGATCAGGAGTTCAGGACCAGCCT
SEQ ID NO 4(4255) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16  (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
  Consensus(4551)
```

align SEQID#4 against SEQID#11.apr

```
                        4642      4650      4660      4670      4680      4690      4700      4710      4720      4732
            (4642) 4642 GATCAATATGGTGAAACCCAGTCTTTACTGAAAAATACAAAAATCACCCGGGGTGTGGGTGACGGGGCGCCTGTAGTCCCAGCTACTCGGGTAGC
SEQ ID NO 11(4642) ------------------------------------------------------------------------------------------------
SEQ ID NO 4(4255) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
     Consensus(4642)
```

```
                        4733      4740      4750      4760      4770      4780      4790      4800      4810      4823
            (4733) 4733 TGAGGCAGGAGAATCACTTGAACTCAGGAGTCAGAGGTTGCAGTGAGATCATGCCACTCCAGCCTGGGTGACAGAGAGCAAGA
SEQ ID NO 11(4733) ----------------------------------------------------------------------------------------
SEQ ID NO 4(4255) ----------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------
     Consensus(4733)
```

```
                        4824      4830      4840      4850      4860      4870      4880      4890      4900      4914
            (4824) 4824 CTCCATCTCAAAAAAAAAAAAAAAAAAAGACTGGTTTTTCAACAGCTATTCCCACCCCTCTGCATGGAAATATTCACCCAGTCAATTGTTTT
SEQ ID NO 11(4824) -------------------------------------------------------------------------------------------
SEQ ID NO 4(4255) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(4824)
```

```
                                                 Section 55
              4915  4920      4930      4940      4950      4960      4970      4980      4990      5005
         (4915) 4915(4915)CCTAGTTTGGGTAATGGCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGCAAACTATGTTTAGAAGCATGTCTGGGAAATGT
SEQ ID NO 11(4915)CCTAGTTTGGGTAATGGCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGCAAACTATGTTTAGAAGCATGTCTGGGAAATGT
SEQ ID NO 4(4255)  ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
Consensus(4915)

                                                 Section 56
              5006       5020      5030      5040      5050      5060      5070      5080      5096
         (5006) 5006
SEQ ID NO 11(5006)CATGCAAGAAAAGACATATTTAAAGGTAGGCTTTGCATGAATGGAAAAGGAGAGTAATTCTATGTAGAGCAGGAGCCCTCTTACTTGCAGTGA
SEQ ID NO 4(4255)  ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
Consensus(5006)

                                                 Section 57
              5097       5110      5120      5130      5140      5150      5160      5170      5187
         (5097) 5097
SEQ ID NO 11(5097)GAGAAGCCAAAAGTGGGGAAGCAAGAGGAATTATGCTTTTCATCAGCCAAATTTGCAGGTAGGAGGATTGGCTCAGTCATCTTGGCTGAGGC
SEQ ID NO 4(4255)  ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
Consensus(5097)
```

align SEQID#4 against SEQID#11.apr

Section 58

```
                            5200      5210      5220      5230      5240      5250      5260      5270     5278
                (5188) 5188 ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
SEQ ID NO 11(5188) TCATGAAACCAGGTGTAAAGAGAAGTGGACTAGATTAATTTCATCCATTACAGGAAGAGAGGAGCCGTGAAAGATAATCCAGAAATCATTGGGA
SEQ ID NO 4(4255) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
      Consensus(5188)
```

Section 59

```
                            5290      5300      5310      5320      5330      5340      5350      5360     5369
                (5279) 5279 ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
SEQ ID NO 11(5279) TTTGATGGTAGAAGGTATTTGGGACTATTCCATTTGAAATGAGAAGGTACCTGACATTCTTTGAATTCCTTTCAAGCAAAGGATTAAATT
SEQ ID NO 4(4255) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
      Consensus(5279)
```

Section 60

```
                            5380      5390      5400      5410      5420      5430      5440      5450     5460
                (5370) 5370 ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
SEQ ID NO 11(5370) TACCCATGAGTTGACTCAGAAAAAACATAAAAAGTATTGTTGCTCGCTCAGAGTTTTATCTAACTCATTCTCCACTTCTTATTCCATGATG
SEQ ID NO 4(4255) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
      Consensus(5370)
```

align SEQID#4 against SEQID#11.apr

Section 61

```
                        5470      5480      5490      5500      5510      5520      5530      5540      5551
            (5461) 5461
SEQ ID NO 11(5461) AAATGACATAAATGAGGTTTTTTATTGTTGTTGTTGTTTTCTGGACACAAGGCAAGGTAGCTACCTGGGCAGAGAGCTGTTTTATTTCTC
SEQ ID NO 4(4255)  ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(5461)
```

Section 62

```
                        5560      5570      5580      5590      5600      5610      5620      5630      5642
            (5552) 5552
SEQ ID NO 11(5552) TATGCCGTGGAGAGAAATTGGTTAATTGGCCATGGAAGGCAGTCATTAAGATGTTCCCATGCGAGTGAACTTTCCAGGGTTCCCAGCTTCT
SEQ ID NO 4(4255)  ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(5552)
```

Section 63

```
                        5650      5660      5670      5680      5690      5700      5710      5720      5733
            (5643) 5643
SEQ ID NO 11(5643) GCATCCTCCCTGTCCCCTCAATTCCATTGTTGGTGATGACAAATGTCTCCTCCCCATCAGCCTCATGAGCCTCATGAAGTTCTCTCTCCTCATTTATTAAAATTTG
SEQ ID NO 4(4255)  ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(5643)
```

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```
                                                              Section 64
                  5740      5750      5760      5770      5780      5790      5800      5810      5824
        (5734) 5734
SEQ ID NO 11(5734) CTTTCAGGAAAAAATTTTGAAAAATGTGTCCAGTAATGCCTGATTGGCCCCTTATCCTAAAGGCTTAAACTGGAGGAAGGAAGCTAAAACTGAG
SEQ ID NO 4(4255) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
Consensus(5734)

                                                              Section 65
                  5830      5840      5850      5860      5870      5880      5890      5900      5915
        (5825) 5825
SEQ ID NO 11(5825) AAATCTTGCAAATCATTCAGAGCCAAAAAACGTATTAATAGCAAGATCTATCATTTATTGACTAGTAGTGGCAGGCAGTGCCCTTTTATTTAG
SEQ ID NO 4(4255) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
Consensus(5825)

                                                              Section 66
                  5930      5940      5950      5960      5970      5980      5990      6006
        (5916) 5916
SEQ ID NO 11(5916) GCAGGGGAGAGTTGATGGGGGGGGCGGGGGTTCACCACATCTTAAAGAGGTGCTATCTCCCCTATATAAATCATGTAAGTCAAGAGAGTAAGG
SEQ ID NO 4(4255) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
Consensus(5916)
```

align SEQID#4 against SEQID#11.apr

Section 67

                        6020   6030   6040   6050   6060   6070   6080   6097
          (6007) 6007
SEQ ID NO 11(6007) AATTGTCTTTGTTTGGTTATATTCAGGGGATTAGAGTATACAGTAGAAGATCCCAAGAAACCTTGGGATCATTTAGACTAAGAAATGCCA
SEQ ID NO 4(4255) --
SEQ ID NO 13 (306) --
SEQ ID NO 16   (1) --
SEQ ID NO 15 (558) --
SEQ ID NO 17 (367) --
Consensus(6007)

Section 68

                        6110   6120   6130   6140   6150   6160   6170   6188
          (6098) 6098
SEQ ID NO 11(6098) ATACCGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGCCGAGGTGGGCGGATCACAAGGTCAGGAGATTGAGACCGTC
SEQ ID NO 4(4255) --
SEQ ID NO 13 (306) --
SEQ ID NO 16   (1) --
SEQ ID NO 15 (558) --
SEQ ID NO 17 (367) --
Consensus(6098)

Section 69

                        6200   6210   6220   6230   6240   6250   6260   6279
          (6189) 6189
SEQ ID NO 11(6189) CTGGCTAACGTGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGA
SEQ ID NO 4(4255) --
SEQ ID NO 13 (306) --
SEQ ID NO 16   (1) --
SEQ ID NO 15 (558) --
SEQ ID NO 17 (367) --
Consensus(6189)

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align SEQID#4 against SEQID#11.apr

```
                        6280      6290      6300      6310      6320      6330      6340      6350      6360      6370
            (6280) 6280
SEQ ID NO 11(6280) GGCGGAGGCAGGAGAGAATGGTGTGTGAACTCAGGAGGCGGAGCTTGCAGTCAGCCGAGATTGCCCCAATGCACTTCCAGCCTGGGCGGACAGAACG
SEQ ID NO 4(4255) --------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------------
     Consensus(6280)
```

```
                        6371      6380      6390      6400      6410      6420      6430      6440      6450      6461
            (6371) 6371
SEQ ID NO 11(6371) AGACTCCGTCTCAGAACAAAACAAAAGGAAATGCCAATACCAGCAGAAATAGAGCCAAATCATGAACATAAGCTAAACAAATGTTGGCAGT
SEQ ID NO 4(4255) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(6371)
```

```
                        6462      6470      6480      6490      6500      6510      6520      6530      6540      6552
            (6462) 6462
SEQ ID NO 11(6462) GTAGCCTAGTGGTTAAGAGAGCAGACTCTTAACTAGAACACTGCCACTCCATGTCCTCCACTGTAGACCCTCACTGTGGGGTTCTAATTAACC
SEQ ID NO 4(4255) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(6462)
```

align SEQID#4 against SEQID#11.apr

Section 73

```
                        6553      6560      6570      6580      6590      6600      6610      6620      6630      6643
              (6553) 6553 CCTGTTACTTACCAGTGGCAGTCTTAAGGCATTCCTTAAGTTCGTTGTGCCCCAATTTGTTCATCTGTAGAAGGGGTAGGATGACAGTAGT
SEQ ID NO 11(6553)
SEQ ID NO 4(4255) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
  Consensus(6553)
```

Section 74

```
                        6644      6650      6660      6670      6680      6690      6700      6710      6720      6734
              (6644) 6644 GTTTACTTTATAGGCTTACTGTGAGCATTAAATGAGTTACTACTGTATTTGTAAAGTGCTTAAAATGCTGCTCCAAAAGAGTTTGTTAAAC
SEQ ID NO 11(6644)
SEQ ID NO 4(4255) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
  Consensus(6644)
```

Section 75

```
                        6735      6740      6750      6760      6770      6780      6790      6800      6810      6825
              (6735) 6735 ACTTAAGAACTGATTTACTTGCATCTAAAACTGACAGCTCTCAATAACTGGAAATGATCAAGCATAGGCCCTGGAATATAAGCAGGTCTACA
SEQ ID NO 11(6735)
SEQ ID NO 4(4255) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
  Consensus(6735)
```

align SEQID#4 against SEQID#11.apr

Section 76

```
                    6826      6840      6850      6860      6870      6880      6890      6900      6915
          (6826) 6826                                                                                      6916
SEQ ID NO 11(6826) TGAAGGCAAAAAATGTTGCGTTTCTTTTGTTCAGCCCTGTGCCTAGATCAATATCTAGTGATCATGCTCAAGAAATATTGTTGAATGAATCAA
SEQ ID NO 4(4255) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
   Consensus(6826)
```

Section 77

```
                    6917      6930      6940      6950      6960      6970      6980      6990      7007
          (6917) 6917                                                                                      7007
SEQ ID NO 11(6917) TGAACCTACCGAGGTAGTTACATAAAAGAGTTCTGCATGAGTACAAATCTGGGCAAAGTGACCTCCAAGGAAATTTCCACTTTTAGATTCT
SEQ ID NO 4(4255) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
   Consensus(6917)
```

Section 78

```
                    7008      7020      7030      7040      7050      7060      7070      7080      7098
          (7008) 7008                                                                                      7098
SEQ ID NO 11(7008) GTGATTTCCTTAAGGAACTGATAAATTGGTGTGATACAATGTAAAAAAATGTGCCTATATGATTTGAGAAAAACTTATTTCTCTCCCTCT
SEQ ID NO 4(4255) ----------------------------------------------------------------------------------------T--
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
   Consensus(7008)
```

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align SEQID#4 against SEQID#11.apr

Section 79

```
                    7099      7110      7120      7130      7140      7150      7160      7170      7189
         (7099) 7099
SEQ ID NO 11(7099) TTTTCCTTCCTTCCTTCCCTCCCCCTTCCTTCCTCCCCCTTCCCTTCCTTCCCCCCCCTTCCTTCCTTCTCTTT
   SEQ ID NO 4(4256) --------------------------------------------------------------------------
   SEQ ID NO 13 (306) --------------------------------------------------------------------------
   SEQ ID NO 16   (1) --------------------------------------------------------------------------
   SEQ ID NO 15 (558) --------------------------------------------------------------------------
   SEQ ID NO 17 (367) --------------------------------------------------------------------------
   Consensus(7099)
```

Section 80

```
                    7190      7200      7210      7220      7230      7240      7250      7260      7270      7280
         (7190) 7190
SEQ ID NO 11(7190) CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTTTCTTTGTGCCTTT
   SEQ ID NO 4(4256) ------------------------------------------------------------------------------
   SEQ ID NO 13 (306) ------------------------------------------------------------------------------
   SEQ ID NO 16   (1) ------------------------------------------------------------------------------
   SEQ ID NO 15 (558) ------------------------------------------------------------------------------
   SEQ ID NO 17 (367) ------------------------------------------------------------------------------
   Consensus(7190)
```

Section 81

```
                    7281      7290      7300      7310      7320      7330      7340      7350      7360      7371
         (7281) 7281
SEQ ID NO 11(7281) CTTTCTTTCTTTCTTTCTTTCTCTGTCCTTCCTTTCTTCTTTCTGCCTTTCTTTGTTTTCTTTCTTTCCTTCTTTT
   SEQ ID NO 4(4256) ------------------------------------------------------------------------------
   SEQ ID NO 13 (306) ------------------------------------------------------------------------------
   SEQ ID NO 16   (1) ------------------------------------------------------------------------------
   SEQ ID NO 15 (558) ------------------------------------------------------------------------------
   SEQ ID NO 17 (367) ------------------------------------------------------------------------------
   Consensus(7281)
```

align SEQID#4 against SEQID#11.apr

```
                          7372      7380      7390      7400      7410      7420      7430      7440      7450      7462
              (7372) 7372 TTCCTTTAAGCAGAGACCATGTCTGTTAGATGAATGCCTTTTTCTAGTTAAAAGGTTAAACAGGAAAGTGAAGCACAATTATCAAGGGTCTCC
SEQ ID NO 11(7372)
SEQ ID NO 4(4256)     ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306)    ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)    ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)    ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)    ---------------------------------------------------------------------------------------------
Consensus(7372)
```

```
                          7463      7470      7480      7490      7500      7510      7520      7530      7540      7553
              (7463) 7463 AGTCATCTCCACATGTTCTTAATCATTATCTTCTTTTACAGTTTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGCTGCCCT
SEQ ID NO 11(7463)
SEQ ID NO 4(4256)     -----------------------------------------------TTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGCTGCCCT
SEQ ID NO 13 (306)    ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)    ---------------------------------------------------TTTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGCTGCCCT
SEQ ID NO 15 (558)    ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)    ---------------------------------------------------------------------------------------------
Consensus(7463)                                                          TTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGCTGCCCT
```

```
                          7554      7560      7570      7580      7590      7600      7610      7620      7630      7644
              (7554) 7554 TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
SEQ ID NO 11(7554)
SEQ ID NO 4(4305)     TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
SEQ ID NO 13 (306)    ---------------------------------------------------------------------------------------------
SEQ ID NO 16  (51)    TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
SEQ ID NO 15 (558)    ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)    ---------------------------------------------------------------------------------------------
Consensus(7554)        TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAAATCAGAATCTGCGCAGCAGTTCCTGGGCGTTTCAGCTGC
```

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align SEQID#4 against SEQID#11.apr

```
                          7645      7650      7660      7670      7680      7690      7700      7710      7720              7735
                                                                                                                              Section 85
                   (7645) 7645
SEQ ID NO 11(7645)        TTCCCACACATCACCTGCCTCCATCAAGCCCCAGCATCCATCTCCTTGCTCATCCATGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 4(4396)         TTCCCACACATCACCTGCCTCCATCAAGCCCCAGCATCCATCTCCTTGCTCATCCATGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 13 (306)        ----------------------------------------------------------------------------------------
SEQ ID NO 16 (142)        TTCCCACATCACCTGCCTCATCAAGCCCCAGCATCCATCTCCTTGCTCATCCATGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 15 (558)        ----------------------------------------------------------------------------------------
SEQ ID NO 17 (367)        ----------------------------------------------------------------------------------------
Consensus(7645)           TTCCCACATCACCTGCCTCCATCAAGCCCCAGCATCCATCTCCTTGCTCATCCATGTGTGCATGACAGGCCCACCATTCATTTATC

                          7736      7750      7760      7770      7780      7790      7800      7810              7826
                                                                                                                      Section 86
                   (7736) 7736
SEQ ID NO 11(7736)        AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG
SEQ ID NO 4(4487)         AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG
SEQ ID NO 13 (306)        --------------------------------------------------------------------------------------------
SEQ ID NO 16 (233)        AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG
SEQ ID NO 15 (558)        --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)        --------------------------------------------------------------------------------------------
Consensus(7736)           AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG

                          7827      7840      7850      7860      7870      7880      7890      7900              7917
                                                                                                                      Section 87
                   (7827) 7827
SEQ ID NO 11(7827)        CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 4(4578)         CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 13 (306)        ------------------------------------------------------------------------------------------
SEQ ID NO 16 (324)        CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 15 (558)        ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)        ------------------------------------------------------------------------------------------
Consensus(7827)           CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC
```

align SEQID#4 against SEQID#11.apr

Section 88

```
                   7930      7940      7950      7960      7970      7980      7990      8008
          (7918) 7918
SEQ ID NO 11(7918) TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 4(4669) TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 13 (306) ---------
SEQ ID NO 16 (415) TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 15 (558) ---------
SEQ ID NO 17 (367) ---------
Consensus(7918) TTCCAAAACACAGTTCTCTTAATTCTCCAAGAAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
```

Section 89

```
                   8020      8030      8040      8050      8060      8070      8080      8099
          (8009) 8009
SEQ ID NO 11(8009) ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
SEQ ID NO 4(4760) ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
SEQ ID NO 13 (306) ---------
SEQ ID NO 16 (506) ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
SEQ ID NO 15 (558) ---------
SEQ ID NO 17 (367) ---------
Consensus(8009) ATTTAAATCAACTTTAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTTCT
```

Section 90

```
                   8110      8120      8130      8140      8150      8160      8170      8180      8190
          (8100) 8100
SEQ ID NO 11(8100) GCTAGGTGCAAAAATGGAAAAAAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
SEQ ID NO 4(4851) GCTAGGTGCAAAAATGGAAAAAAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
SEQ ID NO 13 (306) ---------
SEQ ID NO 16 (597) GCTAGGTGCAAAAATGGAAAAAAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
SEQ ID NO 15 (558) ---------
SEQ ID NO 17 (367) ---------
Consensus(8100) GCTAGGTGCAAAAATGGAAAAAAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAA
```

align SEQID#4 against SEQID#11.apr

Section 91

```
                        8191      8200      8210      8220      8230      8240      8250      8260      8270      8281
             (8191) 8191
SEQ ID NO 11(8191) TATATTCAGTCATATAGTGGGGAAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO  4(4942) TATATTCAGTCATATAGTGGGGAAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (688) TATATTCAGTCATATAGTGGGGAAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
    Consensus(8191) TATATTCAGTCATATAGTGGGGAAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
```

Section 92

```
                        8282      8290      8300      8310      8320      8330      8340      8350      8360      8372
             (8282) 8282
SEQ ID NO 11(8282) CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO  4(5033) CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (779) CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
    Consensus(8282) CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
```

Section 93

```
                        8373      8380      8390      8400      8410      8420      8430      8440      8450      8463
             (8373) 8373
SEQ ID NO 11(8373) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAACGGAAGTTTATGCCTGTTTTCTC
SEQ ID NO  4(5124) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAACGGAAGTTTATGCCTGTTTTCTC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (870) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAACGGAAGTTTATGCCTGTTTTCTC
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
    Consensus(8373) CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAACGGAAGTTTATGCCTGTTTTCTC
```

align SEQID#4 against SEQID#11.apr

```
                      8464      8470      8480      8490      8500      8510      8520      8530      8540      8554
            (8464) 8464
SEQ ID NO 11(8464) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 4(5215) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (961) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
 Consensus(8464) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
```

```
                      8555      8560      8570      8580      8590      8600      8610      8620      8630      8645
            (8555) 8555
SEQ ID NO 11(8555) AATCACAAAAGATTGGTAAAATTCTTAACATATTAATAATATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
SEQ ID NO 4(5306) AATCACAAAAGATTGGTAAAATTCTTAACATATTAATAATATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16(1052) AATCACAAAAGATTGGTAAAATTCTTAACATATTAATAATATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
 Consensus(8555) AATCACAAAAGATTGGTAAAATTCTTAACATATTAATAATATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
```

```
                      8646      8660      8670      8680      8690      8700      8710      8720      8736
            (8646) 8646
SEQ ID NO 11(8646) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
SEQ ID NO 4(5397) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16(1143) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
 Consensus(8646) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
```

align SEQID#4 against SEQID#11.apr

```
                        8737                8750                8760                8770                8780                8790                8800                8810            8827
SEQ ID NO 11(8737) GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTGTATAAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 4(5488)  GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTGTATAAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16(1234) GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTGTATAAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
Consensus(8737)    GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTGTATAAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCA
```

```
                        8828                8840                8850                8860                8870                8880                8890                8900            8918
SEQ ID NO 11(8828) GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 4(5579)  GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16(1325) GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
Consensus(8828)    GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
```

```
                        8919                8930                8940                8950                8960                8970                8980                8990            9009
SEQ ID NO 11(8919) TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 4(5670)  TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16(1416) TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
Consensus(8919)    TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTATGGGATTTTTTTTTAACTCTTTATTTACAAAAGCAG
```

align SEQID#4 against SEQID#11.apr

Section 100

```
                (9010) 9010        9020       9030       9040       9050       9060       9070       9080       9090       9100
SEQ ID NO 11(9010) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCCTGACCCTGACCTGACTTTATATTTATGGACAACATTTAGACTGTGACT
SEQ ID NO 4(5761) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCCTGACCCTGACCTGACTTTATATTTATGGACAACATTTAGACTGTGACT
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------------
SEQ ID NO 16(1507) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCTGACCTGACTTTATATTTATGGACAACATTTAGACTGTGACT
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------------------
Consensus(9010) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGAGAAAATCTTATATTTATGGACAACATTTAGACTGTGACT
```

Section 101

```
                (9101) 9101        9110       9120       9130       9140       9150       9160       9170       9180       9191
SEQ ID NO 11(9101) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
SEQ ID NO 4(5852) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------------
SEQ ID NO 16(1598) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------------------
Consensus(9101) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTTAATGATAAGTGAAAT
```

Section 102

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                (9192) 9192        9200       9210       9220       9230       9240       9250       9260       9270       9282
SEQ ID NO 11(9192) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
SEQ ID NO 4(5943) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------------------
SEQ ID NO 16(1689) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------------------
Consensus(9192) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
```

align SEQID#4 against SEQID#11.apr

```
                   (9283) 9283                9290      9300      9310      9320      9330      9340      9350      9360      9373
SEQ ID NO 11(9283) CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCA
SEQ ID NO 4(6034)  CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16(1780) CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCA
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
  Consensus(9283) CTCTTGTTGTATGGTCCAGGCCAAGTTACCCTAATCTCTCCAGGCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCA
```

```
                   (9374) 9374                9380      9390      9400      9410      9420      9430      9440      9458
SEQ ID NO 11(9374) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACACATAGAATAGGGCCCAGCCTATATTTAATTTATCAATAAATGCCAG
SEQ ID NO 4(6125)  GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACACATAGAATAGGGCCCAGCCTATATTTAATTTATCAATAAATGCCAG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16(1871) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACACATAGAATAGGGCCCAGCCTATATTTAATTTATCAATAAATGCCAG
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
  Consensus(9374) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACACATAGAATAGGGCCCAGCCTATATTTAATTTATCAATAAATGCCAG
```

EXHIBIT D

SEQ NO 13 and 16 against SEQ NO 6

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                                                                          Section 1
                 10         20         30         40         50         60         70         80        91
SEQ ID NO 6  (1)  ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCGTCCAATCGTGGAAAGCTTGAATAAAACAAAAAG
SEQ ID NO 13 (1)  ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCGTCCAATCGTGGAAAGCTTGAATAAAACAAAAAG
SEQ ID NO 16 (1)  ------------------------------------------------------------------------------------------------
Consensus    (1)  ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCATCATCCAATAAGGGCCAGGCATCATCCAATCGTCGAAAGCTTGAATAAAACAAAAG

                                                                          Section 2
                 100        110        120        130        140        150        160        170       182
SEQ ID NO 6  (92) AGGAAGGGGAAAATTTGCTTCTTTTCTTCTTGATCTAGTATATCATTCTTCTTCCGCCCTTGGATGTGGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 13 (92) AGGAAGGGGAAAATTTGCTTCTTTTCTTCTTGATCTAGTATATCATTCTTCTTCCGCCCTTGGATGTGGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 16 (1)  ------------------------------------------------------------------------------------------
Consensus    (92) AGGAAGGGGAAAATTTGCTTCTTTTCTTCTTGATCTAGTATATCATTCTTCTTCCGCCCTTGGATGTGAGTGGGCCTTCAGACTTAAACCAGG

                                                                          Section 3
                 190        200        210        220        230        240        250        260       273
SEQ ID NO 6 (183) AGTTACACCTTTGGCTTCCCTGGTTCTCAGTTCTTTGGACTTGGACTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 13(183) AGTTACACCTTTGGCTTCCCTGGTTCTCAGTTCTTTGGACTTGGACTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 16  (1) ------------------------------------------------------------------------------------------
Consensus   (183) AGTTACACCTTTGGCTTCCCTGGTTCTCCAGTTCCTGGTTCTCCAGTTCTTTGGACTTGGACTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC

                                                                          Section 4
                 280        290        300        310        320        330        340        350       364
SEQ ID NO 6 (274) AGATCATGGGACTTCTTGGCCTCCATAATTGTTTTCATATCTCCAGGCCTTCATTGGGTCAGGTGGCATTCGCTGCCCTTTATGTGTG
SEQ ID NO 13(274) AGATCATGGGACTTCTTGGCCTCTGGCCTCCATAATTGT--------TTTCATATCTCCAGGCCTTCATTGGGTCAGGTGGCATTCGCTGCCCTTTATGTGTG
SEQ ID NO 16  (1) ------------------------TTTCATATCTCCAGGCCTTCATTGGGTCAGGTGGCATTCGCTGCCCTTTATGTGTG
Consensus   (274) AGATCATGGGACTTCTTGGCCTCCATAATTGTTTTCATATCTCCAGGCCTTCATTGGGTCAGGTGGCATTCGCTGCCCTTTATGTGTG
```

SEQ NO 13 and 16 against SEQ NO 6

Section 5

```
                             390       400       410       420       430       440       455
SEQ ID NO 6   (365) 365 TGACAAGTGAAAAATAAGGAAGAAGAAAAAACTCAAGTGAAGAAAATCAGAAATCTGCGCCAGCAGTTCCTGGGCCGTTTCAGCGCGCTTCCCACAT
SEQ ID NO 13  (306) (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (60) (60) TGACAAGTGAAAAATAAGGAAGAAGAAAAAACTCAAGTGAAGAAAATCAGAAATCTGCGCCAGCAGTTCCTGGGCCGTTTCAGCGCGCTTCCCACAT
Consensus     (365) (365) TGACAAGTGAAAAATAAGGAAAAAAATAAGGAAAAAGAAGAAAAACTCAAGTGAAGAAGAAAAATCAGAAATCTGCGCGCAGCAGTTCCTGGGCCGTTTCAGCGCGCTTCCCACAT
```

Section 6

```
                             470       480       490       500       510       520       530       546
SEQ ID NO 6   (456) 456 CACCTGCCTCATCAAGCCCCCAGCCATCCATCTCCTTGCCTCATCTCCTTACACCCTGTGTGCATGACAGGCCCACCATTCATTTATCAGAGCAAAG
SEQ ID NO 13  (306) (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (151) (151) CACCTGCCTCATCAAGCCCCCAGCATCCATCTCCTCGCCTCATCTCCTTACACCCTGTGTGCATGACAGGCCCACCATTCATTTATCAGAGCAAAG
Consensus     (456) (456) CACCTGCCTCATCAAGCCCCCAGCCCCCCAGCCATCCATCTCCTTGCCTCATCTCCTTACACCCTGTGTGCATGACAGGCCCACCATTCATTTATCAGAGCAAAG
```

Section 7

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                             560       570       580       590       600       610       620       637
SEQ ID NO 6   (547) 547 GCTCTCCCACTATTCTGGTTCACCCCCTACTTAGCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAGGTCAGAGGA
SEQ ID NO 13  (306) (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (242) (242) GCTCTCCCACTATTCTGGTTCACCCCCTACTTAGCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAGGTCAGAGGA
Consensus     (547) (547) GCTCTCCCACTATTCTGGTTCACCCCCTACTTAGCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAGGCTCAGAGGA
```

Section 8

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                             650       660       670       680       690       700       710       728
SEQ ID NO 6   (638) 638 GCTCAGATTCCATTACTATTCGCACCAAGGACAGAGAATGACCAGCAAGAATGACAGAAAAGACTAACTGCCCCCAAAATCTCCGTTCCAAAAC
SEQ ID NO 13  (306) (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (333) (333) GCTCAGATTCCATTACTATTCGCACCAAGGACAGAGAATCTCCCAGCAAGGACAGAGAATGACAGAAAAGACTAACTGCCCCCAAAATCTCCGTTCCAAAAC
Consensus     (638) (638) GCTCAGATTCCATTACTATTCGCACCAAGGACAGAGAATCTCCCAGCAAGGACAGAGAATGACAGAAAAGACTAACTGCCCCCAAAATCTCCGTTCCAAAAC
```

SEQ NO 13 and 16 against SEQ NO 6

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                                                                        Section 9
            (729) 729                    740       750       760       770       780       790       800                    819
SEQ ID NO 6  (729) ACAGTTCTCTTAATTCTCCCAAGAAATGAGTGACTGCCTCACCCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCTATTTAAATC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (424) ACAGTTCTCTTAATTCTCCCAAGAAATGAGTGACTGCCTCACCCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCTATTTAAATC
Consensus    (729) ACAGTTCTCTTAATTCTCCCAAGAAATGAGTGACTGCCTCACCCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCTATTTAAATC
                                                                                                    Section 10
            (820) 820                    830       840       850       860       870       880       890       900        910
SEQ ID NO 6  (820) AACTTTAAAAAATCCAACGCGCCAAAATATTTGGTTGGAATGATAACCATTTGGTTGGAATGATAACATAACCTGCTGCTTCTGCTAGGTGC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (515) AACTTTAAAAAATCCAACGCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGCTTCTGCTAGGTGC
Consensus    (820) AACTTTAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGCTTCTGCTAGGTGC
                                                                                                    Section 11
            (911) 911                    920       930       940       950       960       970       980       990        1001
SEQ ID NO 6  (911) AAAAATGGAAAAAAATACTTCTAATCAGGTCAAATCACTCACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAATATTCAG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (606) AAAAATGGAAAAAAATACTTCTAATCAGGTCAAATCACTCACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAATATTCAG
Consensus    (911) AAAAATGGAAAAAAATACTTCTAATCAGGTCAAATCACTCACCTTTGGGATTCTAAATTACTCATATTCTCAAAGAAATATTCAG
                                                                                                    Section 12
            (1002) 1002                  1010      1020      1030      1040      1050      1060      1070      1080       1092
SEQ ID NO 6 (1002) TCATAGTGGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAATCAGAAATTG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (697) TCATAGTGGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAATCAGAAATTG
Consensus   (1002) TCATAGTGGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAATCAGAAATTG
```

SEQ NO 13 and 16 against SEQ NO 6

Section 13

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                    1100      1110      1120      1130      1140      1150      1160      1170
          (1093) 1093                                                                              1183
SEQ ID NO 6(1093) ATTTTTGGAAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTACAATCCAGAGACTATAGAAGGAAATTCACAACCTGGA
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16 (788) ATTTTTGGAAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTACAATCCAGAGACTATAGAAGGAAATTCACAACCTGGA
Consensus(1093) ATTTTTGGAAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTACAATCCAGAGACTATAGAAGGAAATTCACAACCTGGA
```

Section 14

```
                    1190      1200      1210      1220      1230      1240      1250      1260
          (1184) 1184                                                                              1274
SEQ ID NO 6(1184) CTTTCACCTCCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCTTAACGGAAGTTTATGCCTGTTTTCTCTTCACATAC
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16 (879) CTTTCACCTCCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCTTAACGGAAGTTTATGCCTGTTTTCTCTTCACATAC
Consensus(1184) CTTTCACCTCCCATTGGTCAGAGTTTTACTGACCAATTCCCACCTCTGCCTTAACGGAAGTTTATGCCTGTTTTCTCTTCACATAC
```

Section 15

```
                    1280      1290      1300      1310      1320      1330      1340      1350
          (1275) 1275                                                                              1365
SEQ ID NO 6(1275) CCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTGTTGGCCTCGATTACATGGTCCCCTAAATTTGACCTAATCACAAA
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16 (970) CCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTGTTGGCCTCGATTACATGGTCCCCTAAATTTGACCTAATCACAAA
Consensus(1275) CCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTGTTGGCCTCGATTACATGGTCCCCTAAATTTGACCTAATCACAAA
```

Section 16

```
                    1380      1390      1400      1410      1420      1430      1440
          (1366) 1366                                                                              1456
SEQ ID NO 6(1366) AGATTGGTAAAATTTCTTAACATATTAATTAATATTTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTCTTAACGTTC
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16(1061) AGATTGGTAAAATTTCTTAACATATTAATTAATATTTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTCTTAACGTTC
Consensus(1366) AGATTGGTAAAATTTCTTAACATATTAATTAATATTTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTCTTAACGTTC
```

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SEQ NO 13 and 16 against SEQ NO 6

Section 17

		1470	1480	1490	1500	1510	1520	1530	
(1457)	1457								1547

SEQ ID NO 6(1457) TCTTTTTGAAAGAGAATATTAGGAATTCAGAGAATATTAAGAGAGATTCTCCCAGGATCACAGTTAGGTAACACAGTCAGACTGGATTTAGTCCAGGTC
SEQ ID NO 13 (306) -----------------
SEQ ID NO 16(1152) TCTTTTTGAAAGAGAATATTAGGAATTCAGAGATTCAGAGAATATTAAGAGAGATTCTCCCAGGATCACAGTCAGACTGGATTTAGTCCAGGTC
Consensus(1457) TCTTTTTGAAAGAGAATATTAGGAATTCAGAGAATATTAAGAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTAGTCCAGGTC

Section 18

		1560	1570	1580	1590	1600	1610	1620	
(1548)	1548								1638

SEQ ID NO 6(1548) TGTCTACAGCTCTAACGTATATACACCCTTGTATAAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCAGGGGTCAGC
SEQ ID NO 13 (306) -----------------
SEQ ID NO 16(1243) TGTCTACAGCTCTAACGTATATACACCCTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGTCAGGGGTCAGC
Consensus(1548) TGTCTACAGCTCTAACGTATATACACCCTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTTCAGTGATCTAAGTCAGGGGTCAGC

Section 19

		1650	1660	1670	1680	1690	1700	1710	
(1639)	1639								1729

SEQ ID NO 6(1639) AACCTTTTCTAAAAAGGACCAAAAAGTAATATTTCAGGCTTGTGGACCCTATGGTCTCATCATAACTGTTCAAATCACCATGTAGTGTA
SEQ ID NO 13 (306) -----------------
SEQ ID NO 16(1334) AACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCATGTAGTGTA
Consensus(1639) AACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTGTGGACCTATGGTCTCTATCATAACTGTTCAAATCACCATGTAGTGTA

Section 20

		1740	1750	1760	1770	1780	1790	1800	1810	
(1730)	1730									1820

SEQ ID NO 6(1730) AAAGGAGCCATAAGCAAAATATTAAAACTAACGAATGTGGCTGTTTTTTTTATTTACTCTTTATTTACAAAAGCAGGTGGCCAGAT
SEQ ID NO 13 (306) -----------------
SEQ ID NO 16(1425) AAAGGAGCCATAAGCAAAATATAAACATAAACTAACGAATGTGGCTGTTTTTTTTATTTAACTCTTTATTTACAAAAGCAGGTGGCCAGAT
Consensus(1730) AAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTTTTTTTAACTCTTTATTTACAAAAGCAGGTGGCCAGAT

SEQ NO 13 and 16 against SEQ NO 6

Section 21

```
                    1830      1840      1850      1860      1870      1880      1890      1900      1911
        (1821) 1821 CAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCCTGAGAAAATCTTATATTATTTATGGACAACATTTAGACTGTGACTTGCCAAGTA
SEQ ID NO 6(1821) CAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCCTGAGAAAATCTTATATTATTTATGGACAACATTTAGACTGTGACTTGCCAAGTA
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 16(1516) CAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCCTGAGAAAATCTTATATTATTTATGGACAACATTTAGACTGTGACTTGCCAAGTA
    Consensus(1821) CAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCCTGAGAAAATCTTATATTATTTATGGACAACATTTAGACTGTGACTTGCCAAGTA
```

Section 22

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                    1920      1930      1940      1950      1960      1970      1980      1990      2002
        (1912) 1912 AGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGAGAGCAAAAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAAAGT
SEQ ID NO 6(1912) AGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGAGAGCAAAAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAAAGT
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 16(1607) AGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGAGAGCAAAAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAAAGT
    Consensus(1912) AGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGAGAGCAAAAGCTGTCTGGTGTTAATGATAAGTGAAATAGTTAAAGT
```

Section 23

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                    2010      2020      2030      2040      2050      2060      2070      2080      2093
        (2003) 2003 TAGAAGATCCCAGTTATAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTG
SEQ ID NO 6(2003) TAGAAGATCCCAGTTATAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTG
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 16(1698) TAGAAGATCCCAGTTATAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTG
    Consensus(2003) TAGAAGATCCCAGTTATAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCACTCTTGTTG
```

Section 24

```
                    2100      2110      2120      2130      2140      2150      2160      2170      2184
        (2094) 2094 TATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCAGAGAGCTGT
SEQ ID NO 6(2094) TATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCAGAGAGCTGT
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------------
SEQ ID NO 16(1789) TATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCAGAGAGCTGT
    Consensus(2094) TATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGATAATAAAAGTATTTCCTCAGAGAGCTGT
```

SEQ NO 13 and 16 against SEQ NO 6

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              (2185) 2185    2190      2200      2210      2220      2230      2240      2250      2260
SEQ ID NO 6(2185) AAGAATAAAACTGAGCTAACCCATGTCAAGCACACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------
SEQ ID NO 16(1880) AAGAATAAAACTGAGCTAACCCATGTCAAGCACACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
Consensus(2185) AAGAATAAAACTGAGCTAACCCATGTCAAGCACACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
```

EXHIBIT E

SEQ NO 13, 15 and 16 against SEQ NO 7

Section 1

| | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 91 |
SEQ ID NO 7 (1) ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCGTCCAATCGTCGAAAAGCTTGAATAAAACAAAAAG
SEQ ID NO 13 (1) ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCGTCCAATCGTCGAAAAGCTTGAATAAAACAAAAAG
SEQ ID NO 15 (1) --
SEQ ID NO 16 (1) --
Consensus (1) ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCGTCGAAAGCTTGAATAAAACAAAAAG

Section 2

| | | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 182 |
SEQ ID NO 7 (92) AGGAAGGGAAAATTTGCTTCTTTTTCTTCTTTGATCTAGTATATCATCTTCTCTGCCCTTGGATGTGAGTGGGCCTTAAACCAGG
SEQ ID NO 13 (92) AGGAAGGGAAAATTTGCTTCTTTTTCTTCTTTGATCTAGTATATCATCTTCTCTGCCCTTGGATGTGAGTGGGCCTTAAACCAGG
SEQ ID NO 15 (1) --
SEQ ID NO 16 (1) --
Consensus (92) AGGAAGGGAAAATTTGCTTCTTTTTCTTCTTTGATCTAGTATATCATCTTCTCTGCCCTTGGATGTGGGCCTTAAACCAGG

Section 3

| | | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 273 |
SEQ ID NO 7 (183) AGTTACACCTTTGGCTTCCCTGGTTCTCAGTTCTTGGACTGGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 13 (183) AGTTACACCTTTGGCTTCCCTGGTTCTCAGTTCTTGGACTGGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 15 (1) --
SEQ ID NO 16 (1) --
Consensus (183) AGTTACACCTTTGGCTTCCCTGGTTCTCCAGTTCTTGGACTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC

Section 4

| | | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 364 |
SEQ ID NO 7 (274) AGATCATGGGACTTCTTGGCCTCCATAATTGTGGGCCATAATTGTGGGCTCCCAATAATTGTGGGCAAAAAGGAAAAGAGACAAAAACAGCATGAAATGATGAGACCAAGTGATGAAAATTCA
SEQ ID NO 13 (274) AGATCATGGGACTTCTTGGCCTCCATAATTGT----------------------GGGCAAAAAGGAAAAGAGACAAAAACAGCATGAAATGATGAGACCAAGTGATGAAAATTCA
SEQ ID NO 15 (1) --
SEQ ID NO 16 (1) --
Consensus (274) AGATCATGGGACTTCTTGGCCTCCATAATTGTGGGCAAAAAGGAAAAGAGACAAAAACAGCATGAAATGATGAGACCAAGTGATGAAAATTCA

SEQ NO 13, 15 and 16 against SEQ NO 7

Section 5

| | | | 370 | 380 | 390 | 400 | 410 | 420 | 430 | 440 | 455 |

SEQ ID NO 7   (365) (365) TTCACAATGATTGCTTTCAAGAGTAATTCCTCTTGGGTAATTCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAA
SEQ ID NO 13 (306) --
SEQ ID NO 15 (60) TTCACAATGATTGCTTTCAAGAGTAATTCCTCTTGGGTAATTCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAA
SEQ ID NO 16 (1)   --
Consensus   (365) TTCACAATGATTGCTTTCAAGAGTAATTCCTCTTGGGTAATTCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAA

Section 6

| | | | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 546 |

SEQ ID NO 7   (456) (456) GCCTCTAAAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCATTCGGGAAAATTCAAAAGAA
SEQ ID NO 13 (306) --
SEQ ID NO 15 (151) GCCTCTAAAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCATTCGGGAAAATTCAAAAGAA
SEQ ID NO 16 (1)   --
Consensus   (456) GCCTCTAAAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCATTCGGGAAAATTCAAAAGAA

Section 7

| | | | 560 | 570 | 580 | 590 | 600 | 610 | 620 | 637 |

SEQ ID NO 7   (547) (547) TAAATATTCTTTTTTTTTTTTTTAAAGTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCA
SEQ ID NO 13 (306) --
SEQ ID NO 15 (242) TAAATATTCTTTTTTTTTTTTTTAAAGTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCA
SEQ ID NO 16 (1)   --
Consensus   (547) TAAATATTCTTTTTTTTTTTTTTAAAGTAATGACCTACGATCCATTCTTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCA

Section 8

| | | | 650 | 660 | 670 | 680 | 690 | 700 | 710 | 728 |

SEQ ID NO 7   (638) (638) GGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTCCCAGGGACTCAGAGATTCTAAGCCAAATTCTTTGAATGATCTTGGCA
SEQ ID NO 13 (306) --
SEQ ID NO 15 (333) GGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTCCCAGGGACTCAGAGATTCTAAGCCAAATTCTTTGAATGATCTTGGCA
SEQ ID NO 16 (1)   GGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTCCCAGGGACTCAGAGATTCTAAGCCAAATTCTTTGAATGATCTTGGCA
Consensus   (638) GGATGAAATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTCCCAGGGACTCAGAGATTCTAAGCCAAATTCTTTGAATGATCTTGGCA

SEQ NO 13, 15 and 16 against SEQ NO 7

SEQ NO 13, 15 and 16 against SEQ NO 7

```
                  1100      1110      1120      1130      1140      1150      1160      1170
          (1093) 1093                                                                              Section 13
SEQ ID NO 7(1093) TCAGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGG  1183
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------
SEQ ID NO 16 (231) TCAGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGG
Consensus(1093)    TCAGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGG

                  1190      1200      1210      1220      1230      1240      1250      1260
          (1184) 1184                                                                              Section 14
SEQ ID NO 7(1184) AGCTCAGAGGGAGCTCAGATTCCATTACTATCGGCACCAAGGACACAGATCTCCCAGCCAAGAAAGACTAACTGCCCGCCAAAATCTC  1274
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------
SEQ ID NO 16 (322) AGCTCAGAGGGAGCTCAGATTCCATTACTATCGGCACCAAGGACACAGATCTCCCAGCCAAGAAAGACTAACTGCCCGCCAAAATCTC
Consensus(1184)    AGCTCAGAGGGAGCTCAGATTCCATTACTATCGGCACCAAGGACACAGATCTCCCAGCCAAGAAAGACTAACTGCCCGCCAAAATCTC

                  1280      1290      1300      1310      1320      1330      1340      1350
          (1275) 1275                                                                              Section 15
SEQ ID NO 7(1275) CCTTCCAAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAATGTGACTGCCTCACCCTCTCTAAGGACCTGAAAACAACTGGCCATTTCAG  1365
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------
SEQ ID NO 16 (413) CCTTCCAAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAATGTGACTGCCTCACCCTCTCTAAGGACCTGAAAACAACTGGCCATTTCAG
Consensus(1275)    CCTTCCAAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAATGTGACTGCCTCACCCTCTCTAAGGACCTGAAAACAACTGGCCATTTCAG

                  1380      1390      1400      1410      1420      1430      1440
          (1366) 1366                                                                              Section 16
SEQ ID NO 7(1366) CTATTTAAATCAACTTTAAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTT  1456
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------
SEQ ID NO 16 (504) CTATTTAAATCAACTTTAAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTT
Consensus(1366)    CTATTTAAATCAACTTTAAAAAAATCCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACTAACCTGCTGACAGCTGCTT
```

SEQ NO 13, 15 and 16 against SEQ NO 7

```
                        1470      1480      1490      1500      1510      1520      1530      1547
            (1457) 1457
SEQ ID NO 7(1457) CTGCTAGGTGCAAAAATGGAAAAAAAATACTTCTAAATCAGGTCAAATCACTCTACCTTTGGGATTCTAAATTTACTCATATTCTCAAAGA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (595) CTGCTAGGTGCAAAAATGGAAAAAAAATACTTCTAAATCAGGTCAAATCACTCTACCTTTGGGATTCTAAATTTACTCATATTCTCAAAGA
  Consensus(1457) CTGCTAGGTGCAAAAATGGAAAAAAAATACTTCTAAATCAGGTCAAATCACTCTACCTTTGGGATTCTAAATTTACTCATATTCTCAAAGA
```

Section 18

```
                        1560      1570      1580      1590      1600      1610      1620      1638
            (1548) 1548
SEQ ID NO 7(1548) AATATATTCAGTCATAGTGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTTCCTTCAAATCTTAATCA
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------
SEQ ID NO 16 (686) AATATATTCAGTCATAGTGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTTCCTTCAAATCTTAATCA
  Consensus(1548) AATATATTCAGTCATAGTGGGGAAAAATAGGATTATTCCTTTAGCTCGATAAGCAACCAGAAGTTCTTTCCTTCAAATCTTAATCA
```

Section 19

```
                        1650      1660      1670      1680      1690      1700      1710      1729
            (1639) 1639
SEQ ID NO 7(1639) ATCAGAAATTGATTTTTGGAAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGAT TTTCTTTTACAATCCAGACTATAGAGGAAATT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (777) ATCAGAAATTGATTTTTGGAAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAGGAAATT
  Consensus(1639) ATCAGAAATTGATTTTTGGAAAAACTGTTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAGGAAATT
```

Section 20

```
                        1740      1750      1760      1770      1780      1790      1800      1810      1820
            (1730) 1730
SEQ ID NO 7(1730) CACAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCCTGCCTTACACCTAACGGAAGTTTATGCCTGTTTTC
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 16 (868) CACAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCCTGCCTTACACCTAACGGAAGTTTATGCCTGTTTTC
  Consensus(1730) CACAACCTGGACTTTCACCTCCATTGGTCAGAGTTTTACTGACCAATTCCCACCCTGCCTTACACCTAACGGAAGTTTATGCCTGTTTTC
```

Section 21

```
                                1821      1830      1840      1850      1860      1870      1880      1890      1900      1911
           (1821) 1821  TCTTCACATACCCCAACACAGTTACAAATGGTGTTATTATTAATAAGCATCTTTATTTTGTGGTTATTAATAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCTAAATTTTGAC
SEQ ID NO 7(1821)
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 16 (959)   TCTTCACATACCCCAACACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCTCTGATTACATGGTCCCTAAATTTTGAC
 Consensus(1821)  TCTTCACATACCCCAACACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCTAAATTTTGAC
```

Section 22

```
                                1912      1920      1930      1940      1950      1960      1970      1980      1990      2002
           (1912) 1912  CTAATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATATATTTTGTTTATGTGTCAATATCTTAGCATGCATGTATCAATTAAGACAGAGG
SEQ ID NO 7(1912)
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1050)   CTAATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATATATTTTGTTTATGTGTCAATATCTTAGCATGCATGTATCAATTAAGACAGAGG
 Consensus(1912)  CTAATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATATATTTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGG
```

Section 23

```
                                2003      2010      2020      2030      2040      2050      2060      2070      2080      2093
           (2003) 2003  TCTTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTT
SEQ ID NO 7(2003)
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1141)   TCTTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGAGAATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTT
 Consensus(2003)  TCTTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGAGAATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTT
```

Section 24

```
                                2094      2100      2110      2120      2130      2140      2150      2160      2170      2184
           (2094) 2094  TAGTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATTCAGCGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGT
SEQ ID NO 7(2094)
SEQ ID NO 13 (306)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558)   ------------------------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1232)   TAGTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGT
 Consensus(2094)  TAGTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTTGTATAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAAGT
```

SEQ NO 13, 15 and 16 against SEQ NO 7

Section 25

```
                    2185      2190      2200      2210      2220      2230      2240      2250      2260      2275
           (2185) 2185
SEQ ID NO 7(2185) CAGGGGTCAGCAACCTTTTCTAAAAAGGACCAAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCATAACTGTTCAAAATCAC
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1323) CAGGGGTCAGCAACCTTTTCTAAAAAGGACCAAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCATAACTGTTCAAAATCAC
   Consensus(2185) CAGGGGTCAGCAACCTTTTCTAAAAAGGACCAAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAAATCAC
```

Section 26

```
                    2276      2290      2300      2310      2320      2330      2340      2350      2366
           (2276) 2276
SEQ ID NO 7(2276) CATGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACGAATGTGGCTGTTTTTATGGGATTTTTTAACTCTTTATTTAACTCTTTATTTACAAAAGC
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1414) CATGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACGAATGTGGCTGTTTTTATGGGATTTTTTAACTCTTTATTTAACTCTTTATTTACAAAAGC
   Consensus(2276) CATGTAGTGTAAAAGGAGCCATAAGCAAAAATATAAACGAATGTGGCTGTTTTTATGGGATTTTTTAACTCTTTATTTACAAAAGC
```

Section 27

```
                    2367      2380      2390      2400      2410      2420      2430      2440      2457
           (2367) 2367
SEQ ID NO 7(2367) AGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCCTGACCAGTTCTGACCCCCTGACCCCCTGACAACATTTAGACTGTGA
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1505) AGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGAAAATCTTATATTATGGACAACATTTAGACTGTGA
   Consensus(2367) AGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGAAAATCTTATATTATGGACAACATTAGACTGTGA
```

Section 28

```
                    2458      2470      2480      2490      2500      2510      2520      2530      2548
           (2458) 2458
SEQ ID NO 7(2458) CTTGCCAAGTAAGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAAGAGCTGTCTGGTGTTAATGATAAGTGAA
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1596) CTTGCCAAGTAAGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAAGAGCTGTCTGGTGTTAATGATAAGTGAA
   Consensus(2458) CTTGCCAAGTAAGAACAAGAAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAAGAGCTGTCTGGTGTTAATGATAAGTGAA
```

SEQ NO 13, 15 and 16 against SEQ NO 7

Section 29

                     2549   2560   2570   2580   2590   2600   2610   2620   2639
             (2549) 2549
SEQ ID NO 7(2549) ATAGTTAAAGTTAGAAGAGATCCCAGTTATAAGAAGAGAATAATGACCATAGAGAATGAAGCACAAAGAATAATGACCATAGAGACTCCTGAACAACAAGAATGTCTGGACTTCTGGCTTAGG
SEQ ID NO 13 (306) ---
SEQ ID NO 15 (558) ---
SEQ ID NO 16(1687) ATAGTTAAAGTTAGAAGAGATCCCAGTTATAAGAAGAGAATAATGACCATAGAGAATGAAGCACAAAGAATAATGACCATAGAGACTCCTGAACAACAAGAATGTCTGGACTTCTGGCTTAGG
Consensus(2549) ATAGTTAAAGTTAGAAGAGATCCCAGTTATAAGAAGAGAATAATGACCATAGAGAATGAAGCACAAAGAATAATGACCATAGAGACTCCTGAACAACAAGAATGTCTGGACTTCTGGCTTAGG

Section 30

                     2640   2650   2660   2670   2680   2690   2700   2710   2720   2730
             (2640) 2640
SEQ ID NO 7(2640) CACTCTTGTGTATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCTCCATTTTCTTATCATTAATGAAGATAATAAAAGTATTTCCT
SEQ ID NO 13 (306) ---
SEQ ID NO 15 (558) ---
SEQ ID NO 16(1778) CACTCTTGTGTATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCTCCATTTTCTTATCATTAATGAAGATAATAAAAGTATTTCCT
Consensus(2640) CACTCTTGTGTATGGTCCAGGCCAAGTTACCTAATCTCTCCAGGCCTCCATTTTCTTATCATTAATGAAGATAATAAAAGTATTTCCT

Section 31

                     2731   2740   2750   2760   2770   2780   2790   2800   2817
             (2731) 2731
SEQ ID NO 7(2731) CAGAGAGCTGTAAGAAGATAAACTGAGCTAACCCAGTCAAGCCACATAGAATAGGGCCCAGCCTATTAATTTATCAATAAATGCCAG
SEQ ID NO 13 (306) ---
SEQ ID NO 15 (558) ---
SEQ ID NO 16(1869) CAGAGAGCTGTAAGAAGATAAACTGAGCTAACCCAGTCAAGCCACATAGAATAGGGCCCAGCCTATATTATTAATTTATCAATAAATGCCAG
Consensus(2731) CAGAGAGCTGTAAGAAGATAAACTGAGCTAACCCAGTCAAGCCACATAGAATAGGGCCCAGCCTATATTATTAATTTATCAATAAATGCCAG

EXHIBIT F

Section 1

```
                              10        20        30        40        50        60        70        80        91
SEQ ID NO 11   (1)   ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCTGTCGAAAGCTTGAATAAAACAAAAG
SEQ ID NO 10   (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 13   (1)   ATTTGAATTGGTGAACTTAGTAAAGCAGACGGCTCTCACCAATAAGGGCAGGCATCATCCAATCTGTCGAAAGCTTGAATAAAACAAAAG
SEQ ID NO 16   (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)   ------------------------------------------------------------------------------------------
Consensus      (1)
```

Section 2

```
                              100       110       120       130       140       150       160       170       182
SEQ ID NO 11  (92)   AGGAAGGGAAAATTTGCTTCTTTTCTTGATCTAGTATATCATCTTCCTGCCCTTGGATGTGAGTGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 10  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 13  (92)   AGGAAGGGAAAATTTGCTTCTTTTCTTGATCTAGTATATCATCTTCCTGCCCTTGGATGTGAGTGGGCCTTCAGACTTAAACCAGG
SEQ ID NO 16  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)    ------------------------------------------------------------------------------------------
Consensus     (92)
```

Section 3

```
                              190       200       210       220       230       240       250       260       273
SEQ ID NO 11  (183)  AGTTACACCTTTGGCTTCCCTGGTTCTCCAGTTCTTTGGACTTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 10  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 13  (183)  AGTTACACCTTTGGCTTCCCTGGTTCTCCAGTTCTTTGGACTTGAATTACACTGCCAGGTTCCTGGTTCTCCAGCTTGCAGATGGC
SEQ ID NO 16  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)    ------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)    ------------------------------------------------------------------------------------------
Consensus     (183)
```

align SEQID#10 against SEQID#11.apr

Section 4

```
                          280       290       300       310       320       330       340       350       364
SEQ ID NO 11  (274) AGATCATGGGACTTCTTGGCCTCCATAAATTGTGTGAGTCAATTTCCATTTTATTTACATATCCAGTTATGCATTGCTTAACAATGGAGACA
SEQ ID NO 10    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 13  (274) AGATCATGGGACTTCTTGGCCTCCATAAATTGT------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -------------------------------------------------------------------------------------------
   Consensus  (274)
```

Section 5

```
                          370       380       390       400       410       420       430       440       455
SEQ ID NO 11  (365) GGTTCTGAGAAATGCATTGTTAAGTGATTTCATCATTGTTGCAAACATCATAGAGTGTAACTACCACAAACCTGGACAGCATAGACTACTACA
SEQ ID NO 10    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) -------------------------------------------------------------------------------------------
   Consensus  (365)
```

Section 6

```
                          470       480       490       500       510       520       530       546
SEQ ID NO 11  (456) CATCTAGGCTACACATGGTGTAGCTTGTAACCTCATGATAACATCATGATAAGTATGTATCTACCATATCTAAATGTAG
SEQ ID NO 10    (1) -------------------------------------------------------------------------------
SEQ ID NO 13  (306) -------------------------------------------------------------------------------
SEQ ID NO 16    (1) -------------------------------------------------------------------------------
SEQ ID NO 15    (1) -------------------------------------------------------------------------------
SEQ ID NO 17    (1) -------------------------------------------------------------------------------
   Consensus  (456)
```

Section 7

```
                           560       570       580       590       600       610       620
            (547) 547                                                                        637
SEQ ID NO 11 (547) AAAAGGTACAGTAAAAAATATGGTATAAATCTTATGGGATCACCACCATCATATATGCAATCCTTTGTAGACTGAAATGTCATTGTGTAGTGCATG
SEQ ID NO 10   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------------
   Consensus (547)
```

Section 8

```
                           650       660       670       680       690       700       710
            (638) 638                                                                        728
SEQ ID NO 11 (638) ACTGTATACGCCACACATACACACAAACACACACACAAATATACTATTGGTTCTTTTCTCTGAAGAGCCCTAATACAATATGTTATACATTTATA
SEQ ID NO 10   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ---------------------------------------------------------------------------------------------
   Consensus (638)
```

Section 9

```
                           740       750       760       770       780       790       800
            (729) 729                                                                        819
SEQ ID NO 11 (729) TTGACTCTATTTCAAAATTTATGGTTTTGGTGAAACATATGTGGAGATGGGGCATAGGTGTGTGAACTGGGATAGTGTCCTGCTGATGAAT
SEQ ID NO 10   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus (729)
```

align SEQID#10 against SEQID#11.apr

Section 10

```
                        820                830        840        850        860        870        880        890        900        910
              (820)820
SEQ ID NO 11  (820) GGGTGGGGAGGCATCATTTGGGACAAGCCCAGGGCATCAGCTTATAGATATCAAGAGCTCAACAAGAGCACTTTATGGCAAAACCTCCCACA
SEQ ID NO 10  (1)   -----------------------------------------------------------------------------------------
SEQ ID NO 13  (306) -----------------------------------------------------------------------------------------
SEQ ID NO 16  (1)   -----------------------------------------------------------------------------------------
SEQ ID NO 15  (1)   -----------------------------------------------------------------------------------------
SEQ ID NO 17  (1)   -----------------------------------------------------------------------------------------
Consensus     (820)
```

Section 11

```
                        911                920        930        940        950        960        970        980        990        1001
              (911)911
SEQ ID NO 11  (911) AGACCCTCTCAGAAGTTGAGAAACTGCTAAAAGTTTCTTTATGACAGATGACATTTATGGGATAAAATAGGGATTAGCAGGATTCTTTAAATA
SEQ ID NO 10  (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)   ------------------------------------------------------------------------------------------
Consensus     (911)
```

Section 12

```
                        1002               1010       1020       1030       1040       1050       1060       1070       1080       1092
              (1002)1002
SEQ ID NO 11  (1002) CTTTCGAACACTAACCTTCATTTCTACCAGGCAGTGGGGCCCCAAGTGCAGGGCCATAGGAAGTACAAGTCTCGGGAGATACTAGGCTGCAC
SEQ ID NO 10  (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16  (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 15  (1)   ------------------------------------------------------------------------------------------
SEQ ID NO 17  (1)   ------------------------------------------------------------------------------------------
Consensus     (1002)
```

align SEQID#10 against SEQID#11.apr

Section 13

```
                      1100      1110      1120      1130      1140      1150      1160      1170      1183
               (1093) 1093
SEQ ID NO 11  (1093) TGTCTGTAGAGAATCTGAAAAAAATAATAGAGTCACTGAAAATGCAGTTTGGTATAATTATTGCCATGCATCATAATTCTAAATCATACTAGT
SEQ ID NO 10     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) ------------------------------------------------------------------------------------------
    Consensus(1093)
```

Section 14

```
                      1190      1200      1210      1220      1230      1240      1250      1260      1274
               (1184) 1184
SEQ ID NO 11  (1184) GGTCAAATACTCTTCCCTGAAAAAACATTTTCTTGGTTTGAATTCTAAATAATTGTTGGTGGTCACCACTGAGCTTTTAAATATATAAAATAC
SEQ ID NO 10     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) ------------------------------------------------------------------------------------------
    Consensus(1184)
```

Section 15

```
                      1280      1290      1300      1310      1320      1330      1340      1350      1365
               (1275) 1275
SEQ ID NO 11  (1275) TTTCAAGTTGCATATTTTTATTACCTGTTCCTTAACAAACATTGAATTCAACATGAAAATGATTATGGGAAACATTCGGGTATACAGTCC
SEQ ID NO 10     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13   (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15     (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17     (1) ------------------------------------------------------------------------------------------
    Consensus(1275)
```

align SEQID#10 against SEQID#11.apr

Section 16

```
                         1380      1390      1400      1410      1420      1430      1440      1456
              (1366) 1366
SEQ ID NO 11(1366) CTGACTCTCTTAAGGACTCAGGTAAATACTTAGGGTATTTCATGGCCCCTAGTCTTTGGGGTACCACATGTTTCTTCTTCAAATCACAGATTCA
SEQ ID NO 10    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------
Consensus(1366)
```

Section 17

```
                         1470      1480      1490      1500      1510      1520      1530      1547
              (1457) 1457
SEQ ID NO 11(1457) AAATCAAGAATGATAACACAGTGATTGTGTAGACAAAATAAGTGAACCAAAATTGCTTGCTTCCTGTCATTCTATGGAACCACTGAGAGTTT
SEQ ID NO 10    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------
Consensus(1457)
```

Section 18

```
                         1560      1570      1580      1590      1600      1610      1620      1638
              (1548) 1548
SEQ ID NO 11(1548) TTACTTGTGTGCTTAAAATTTTGAATAGTAAAACAGAGTGTCAACTTCATGCTGGAATATTTTTGGCTTTTTAGACACAATTTTAAGTACATG
SEQ ID NO 10    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ----------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ----------------------------------------------------------------------------------------
Consensus(1548)
```

align SEQID#10 against SEQID#11.apr

Section 19

```
                        1650      1660      1670      1680      1690      1700      1710                1729
              (1639)    1639                                                                                    
SEQ ID NO 11 (1639) AAGTATTTTTACAAGACTAAGTAACATCACTGAAATTACAGCTTTCTTCTTTTTAAAACTGGTATTGTTATAAAACTAAAGAGCGAATCA
SEQ ID NO 10    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus(1639)
```

Section 20

```
                        1740      1750      1760      1770      1780      1790      1800      1810       1820
              (1730)    1730                                                                                    
SEQ ID NO 11 (1730) AGAAAAGCATAATTATTACTGATTATTACAGGATTATTACTGAAAAAGAAATGTACGGAATAGAGGAGGAGTTAACAAATGATCCAC
SEQ ID NO 10    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus(1730)
```

Section 21

```
                        1830      1840      1850      1860      1870      1880      1890      1900       1911
              (1821)    1821                                                                                    
SEQ ID NO 11 (1821) TCTGGGTGTTGAAAACACCAATAAGCCTGCTTCCAGGAAGTGCCTAAGACAGAGCTGGCTCAGCTTGCTGGGTCACAGCATGTAAGGAAAC
SEQ ID NO 10    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus(1821)
```

Section 22

```
                 (1912) 1912      1920      1930      1940      1950      1960      1970      1980      1990      2002
SEQ ID NO 11(1912) TGCTGGGCTACATGCCACCATCCCTCAGTTGTCCAGATAGATAATCCCATAGCCCCATGGGGAAATAATCTTTAATTATGATATAGCTGACA
SEQ ID NO 10   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(1912)
```

Section 23

```
                 (2003) 2003      2010      2020      2030      2040      2050      2060      2070      2080      2093
SEQ ID NO 11(2003) CCATTCAAAGCACTATGCTAAGTCCTTTATGTGAATTAACTTTTGTCAAATTTATTTTCATAAATAACCCAAATATGTATACCACTATTA
SEQ ID NO 10   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -----------------------------------------------------------------------------------------
   Consensus(2003)
```

Section 24

```
                 (2094) 2094      2100      2110      2120      2130      2140      2150      2160      2170      2184
SEQ ID NO 11(2094) TCCTACCTTAAAGAGAGGAGAAACTGAGCTCCTAAAGTTAAATATCTAACCCAAGTTAAGACTGCTAGTCACCCTAGGCTATTAACTCAGGC
SEQ ID NO 10   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
   Consensus(2094)
```

align SEQID#10 against SEQID#11.apr

Section 25

```
                                  2190      2200      2210      2220      2230      2240      2250      2260      2275
             (2185) 2185
SEQ ID NO 11(2185) AGTCTAACTCAGGTATATAACATTATGCTACTGTTTGCAGCTTTGACTATGCCTGAATTATAACGTCATGCTATCTAACTAAAAAGCTAA
SEQ ID NO 10    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) ------------------------------------------------------------------------------------------
Consensus(2185)
```

Section 26

```
                                  2290      2300      2310      2320      2330      2340      2350      2366
             (2276) 2276
SEQ ID NO 11(2276) GGGAAATAAAATGAGCCATAGGGCTCAATTTCATAAAAGGAGAGAAAATACTGGGGAAAAGTGATAATGCAGAGTTTAAAATATTTTGTA
SEQ ID NO 10    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) --------------------------------------------------------------------------------------------
Consensus(2276)
```

Section 27

```
                                  2380      2390      2400      2410      2420      2430      2440      2457
             (2367) 2367
SEQ ID NO 11(2367) AAAGTGCCAGAGATTGAGTATAACAAGTGTGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAGGAAGAAGGTAAAAAAAGAGGGAGGTCTGAGA
SEQ ID NO 10    (1) ----------------------------------------------------------------GAAGGTAAAAAAAGAGGGAGGTCTGAGA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 17    (1) --------------------------------------------------------------------------------------------
Consensus(2367)
```

align SEQID#10 against SEQID#11.apr

```
                              2470      2480      2490      2500      2510      2520      2530      2548
              (2458)2458
SEQ ID NO 11(2458) AATAGAAATATCAGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATTCAGATTCCACAGAAATCACATTTCT
SEQ ID NO 10  (30) AATAGAAATATCAGAGGAAGGAAATAAAGGAGGGTGAGAGTAAATTCTCTTTTAGCATTCAGATTCCACAGAAATCACATTTCT
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------
 Consensus(2458)
```

```
                              2560      2570      2580      2590      2600      2610      2620      2639
              (2549)2549
SEQ ID NO 11(2549) TTTTTTACCAACTAAGGAAAAATAACACTTGACCTAACATTCATTGCAGTTAGCTAGAAAAGGATGCTAGAAAACTATGTTGCAGTGGTTTG
SEQ ID NO 10 (121) TTTTTTACCAACTAAGGAAAAATAACACTTGACCTAACATTCATTGCAGTTAGCTAGAAAAGGATGCTAGAAAACTATGTTGCAGTGGTTTG
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ------------------------------------------------------------------------------------------
 Consensus(2549)
```

```
                              2650      2660      2670      2680      2690      2700      2710      2720      2730
              (2640)2640
SEQ ID NO 11(2640) CTCTAATTCTTCAGGAATAGAGAAAAGTGACAAAAAGATCAGAGAGAAGGAGAAGAAGAAAATACAGAATTGGAGTAGGA
SEQ ID NO 10 (212) CTCTAATTCTTCAGGAATAGAGAAAAGTGACAAAAAGATCAGAGAGAAGGAGAAGAAGAAAATACAGAATTGGAGTAGGA
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------
 Consensus(2640)
```

align SEQID#10 against SEQID#11.apr

```
                                2740      2750      2760      2770      2780      2790      2800      2810      2821
              (2731) 2731                                                                                          Section 31
SEQ ID NO 11(2731) TATAACACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACTTCAGTTGGTCCCTGGAACAGCAGCATCAGAA
SEQ ID NO 10 (303) TATAACACATATTTGGGTTGAAGGTAAAATTTTATATTGTAATCTTAAGTATCTTGCTACTTCAGTTGGTCCCTGGAACAGCAGCATCAGAA
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------
    Consensus(2731)

                                2830      2840      2850      2860      2870      2880      2890      2900      2912
              (2822) 2822                                                                                          Section 32
SEQ ID NO 11(2822) TCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGTCCCCATCCCAGACTCACTGAATCAGAATATAAATACTGACAAGATGCCCCGGGAT
SEQ ID NO 10 (394) TCTGCCGAGGGCTTGTTAAAAAGGCAGAATCTCAGTCCCCATCCCAGACTCACTGAATCAGAATATAAATACTGACAAGATGCCCCGGGAT
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 17   (1) -------------------------------------------------------------------------------------------
    Consensus(2822)

                                2920      2930      2940      2950      2960      2970      2980      2990      3003
              (2913) 2913                                                                                          Section 33
SEQ ID NO 11(2913) TCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGATTGTTTCTGCAACTTAGTATTTCGAGTTTCCCAAGGAAGAAAAC
SEQ ID NO 10 (485) TCATATGCACAGTAGAGCTGGCGAAGTTCCATTGTAGCCTGTGATTGTTTCTGCAACTTAGTATTTCGAGTTTCCCAAGGAAGAAAAC
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ----------------------------------------------------------------------------------------
SEQ ID NO 17   (1) ----------------------------------------------------------------------------------------
    Consensus(2913)
```

align SEQID#10 against SEQID#11.apr

Section 34

```
                          3004      3010      3020      3030      3040      3050      3060      3070      3080      3094
SEQ ID NO 11 (3004) CCAGGCCTTAGCTTCTCGGCAGACTTGTGTTTCTCCTTTACTTACTAGCTGCATGACTCATGAGCAAGGAAATCAAACTTTATGTGCCTGAG
SEQ ID NO 10 (576)  CCAGGCCTTAGCTTCTCGGCAGACTTGTGTTTCTCCTTTACTTACTAGCTGCATGACTCATGAGCAAGGAAATCAAACTTTATGTGCCTGAG
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  ------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  ------------------------------------------------------------------------------------------
Consensus    (3004)
```

Section 35

```
                          3095  3100      3110      3120      3130      3140      3150      3160      3170      3185
SEQ ID NO 11 (3095) TTTCCTCATCTATAAAATGGAGACTATAATAATCATCTCCTAGGCTTGTTTGTTTGAGGATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
SEQ ID NO 10 (667)  TTTCCTCATCTATAAAATGGAGACTATAATAATCATCTCCTAGGCTTGTTTGTTTGAGGATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
SEQ ID NO 13 (306)  ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  ----------------------------------------------------------------------------------------------
SEQ ID NO 17   (1)  -----------------------------------------------------------ATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
Consensus    (3095)                                                            ATGTTCAACAAATGCTCCTTTCATTCCTCTATTTA
```

Section 36

```
                          3186      3200      3210      3220      3230      3240      3250      3260      3276
SEQ ID NO 11 (3186) CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
SEQ ID NO 10 (758)  CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1)  ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1)  ------------------------------------------------------------------------------------------
SEQ ID NO 17  (36)  CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
Consensus    (3186) CAGACCTGCCGCAGACAATTCTGCTAGCAGCCTTGTGCTATTATCTGTTTTCTAAACTTAGTAATTGAGTGTGATCTGGAGACTAACTCT
```

Section 37

```
                    3290      3300      3310      3320      3330      3340      3350      3367
            (3277) 3277
SEQ ID NO 11(3277) GAAATAAAATAAGCTGATTATTATTTCTCAAAACAACAGAATACGATTTAGCAAAATTACTTCTTAAGATATTATTTTACATTTCTA
SEQ ID NO 10 (849) GAAATAAAATAAGCTGATTATTATTTCTCAAAACAACAGAATACGATTTAGCAAAATTACTTCTTAAGATATTATTTTACATTTCTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------
SEQ ID NO 17 (127) GAAATAAAATAAGCTGATTATTATTTCTCAAAACAACAGAATACGATTTAGCAAAATTACTTCTTAAGATATTATTTTACATTTCTA
Consensus(3277) GAAATAAAATAAGCTGATTATTATTTCTCAAAACAACAGAATACGATTTAGCAAAATTACTTCTTAAGATATTATTTTACATTTCTA
```

Section 38

```
                    3380      3390      3400      3410      3420      3430      3440      3458
            (3368) 3368
SEQ ID NO 11(3368) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGTAAAAAACATATTAT
SEQ ID NO 10 (940) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGTAAAAAACATATTAT
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (218) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGTAAAAAACATATTAT
Consensus(3368) TATTCTCCTACCCTGAGTTGATGTGTGAGCAATATGTCACTTTCATAAAGCCAGGTATACATTATGGACAGGTAAGTAAAAAACATATTAT
```

Section 39

```
                    3470      3480      3490      3500      3510      3520      3530      3549
            (3459) 3459
SEQ ID NO 11(3459) TTATTCTACGTTTTTGTCCAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTGGTAATGTAAAACAAACTCAGTACACAGTAGTATTCAGTA
SEQ ID NO 10(1031) TTATTCTACGTTTTTGTCCAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTGGTAATGTAAAACAAACTCAGTACACAGTAGTATTCAGTA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (309) TTATTCTACGTTTTTGTCCAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTGGTAA----------------------------------
Consensus(3459) TTATTCTACGTTTTTGTCCAAAAATTTTAAATTTCAACTGTTGCGGCGTGTTGGTAA
```

```
                                                                                            Section 40
                 3550      3560      3570      3580      3590      3600      3610      3620      3630      3640
          (3550) 3550
SEQ ID NO 11(3550) CAGTATTTAAGCCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAAGCAAATTTGTGTGAGATATCGTAGATGGAAGTA
SEQ ID NO 10(1122) CAGTATTTAAGCCCCCTGTACTTAAACATATTCCTCGTACCAATGAAGTTACATGAAAAAGCAAATTTGTGTGAGATATCGTAGATGGAAGTA
SEQ ID NO 13 (306) ------
SEQ ID NO 16   (1) ------
SEQ ID NO 15   (1) ------
SEQ ID NO 17 (367) ------
Consensus(3550)

                                                                                            Section 41
                 3641      3650      3660      3670      3680      3690      3700      3710      3720      3731
          (3641) 3641
SEQ ID NO 11(3641) AATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACTCTGTGTGTGTATGTGTGTGTGTGTGTGACAGAGTGTGTGTGAGAGAGAG
SEQ ID NO 10(1213) AATTAGTCTTTATGTTCCCCACAAATTGAAATGCATTTCAAAAACTCTGTGTGTGTATGTGTGTGTGTGTGTGACAGAGTGTGTGTGAGAGAGAG
SEQ ID NO 13 (306) ------
SEQ ID NO 16   (1) ------
SEQ ID NO 15   (1) ------
SEQ ID NO 17 (367) ------
Consensus(3641)

                                                                                            Section 42
                 3732      3740      3750      3760      3770      3780      3790      3800      3810      3822
          (3732) 3732
SEQ ID NO 11(3732) ACAGAGAGAGATACGCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAGTTTTCTAAAGAAAATGAGATCATAACAAAAGC
SEQ ID NO 10(1304) ACAGAGAGAGATACGCTTTGGTTGCCTCCATAAGCTGGCTGCTATGATTAATAAGACCAAGTTTTCTAAAGAAAATGAGATCATAACAAAAGC
SEQ ID NO 13 (306) ------
SEQ ID NO 16   (1) ------
SEQ ID NO 15   (1) ------
SEQ ID NO 17 (367) ------
Consensus(3732)
```

Section 43

```
                        3830      3840      3850      3860      3870      3880      3890      3900      3913
              (3823) 3823
SEQ ID NO 11 (3823) CCTCTTTATGACTATCTTTATCAGGGGCAAAAAGGAAGAGACAAAACAGCATGAAATGAGACCATGAAATGATGAGACCAAGTGATGAAATTCATTCACAA
SEQ ID NO 10 (1395) CCTCTTTATGACTATCTTTATCAGGGGCAAAAAGGAAGAGACAAAACAGCATGAAATGAGACCATGAAATGATGAGACCAAGTGATGAAATTCATTCACAA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------------------
SEQ ID NO 15    (1) --------------------GGGCAAAAAGGAAGAGACAAAACAGCATGAAATGATGAGACCAAGTGATGAAATTCATTCACAA
SEQ ID NO 17  (367) --------------------------------------------------------------------------------------------------------
Consensus   (3823)                          GGGCAAAAAGGAAGAGACAAAACAGCATGAAATGATGAGACCAAGTGATGAAATTCATTCACAA
```

Section 44

```
                        3920      3930      3940      3950      3960      3970      3980      3990      4004
              (3914) 3914
SEQ ID NO 11 (3914) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 10 (1486) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15   (67) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
SEQ ID NO 17  (367) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
Consensus   (3914) TGATTGCTTTCAAGAGTAATTTCTCTTGGGTAATTCAGCAGCCTGTTACTATGGCTCTCTGGAGTGATAGCTAATGTAAATGAAGCCTCTA
```

Section 45

```
                        4010      4020      4030      4040      4050      4060      4070      4080      4095
              (4005) 4005
SEQ ID NO 11 (4005) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
SEQ ID NO 10 (1577) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16    (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15  (158) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
SEQ ID NO 17  (367) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
Consensus   (4005) AAAGTGGATTATCCTGACAAGAATATACTCAGCCAATAATGCAACAGAAATCCATTCAAAGCAATTCGGGAAAAATTCAAAAGAATAAATAT
```

align SEQID#10 against SEQID#11.apr

```
                        4096      4110      4120      4130      4140      4150      4160      4170                4185
                 (4096) 4096
SEQ ID NO 11(4096) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 10(1668) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 13 (306) -------------------------
SEQ ID NO 16   (1) -------------------------
SEQ ID NO 15 (249) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
SEQ ID NO 17 (367) -------------------------
Consensus(4096) TCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCATTCTCCCTGACTAACAAGCAGCAAGCACTTAAAAATATCCAGCCAGGATGAA
```

```
                        4187      4200      4210      4220      4230      4240      4250      4260                4277
                 (4187) 4187
SEQ ID NO 11(4187) ATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTTCCCAGGGACTCCAGATTCTTAAGCCAAATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 10(1759) ATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTTCCCAGGGACTCCAGATTCTTAAGCCAAATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 13 (306) -------------------------
SEQ ID NO 16   (1) -------------------------
SEQ ID NO 15 (340) ATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTTCCCAGGGACTCCAGATTCTTAAGCCAAATTCTTGAATGATCTTGGCAAATGTCT
SEQ ID NO 17 (367) -------------------------
Consensus(4187) ATAGAAACCCACCTGACTTGTTAATATTTTGTTGGTTCCCAGGGACTCCAGATTCTTAAGCCAAATTCTTGAATGATCTTGGCAAATGTCT
```

```
                        4278      4290      4300      4310      4320      4330      4340      4350                4368
                 (4278) 4278
SEQ ID NO 11(4278) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
SEQ ID NO 10(1850) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
SEQ ID NO 13 (306) -------------------------
SEQ ID NO 16   (1) -------------------------
SEQ ID NO 15 (431) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
SEQ ID NO 17 (367) -------------------------
Consensus(4278) CGAATTATTTTTGCCAACTTTTCTTTATCTTGGAAAAAAAGTTCATGAATGGGTGTCAAAAATTGATTAGTTTTAAAAACCTTTCTTGCAG
```

align SEQID#10 against SEQID#11.apr

```
                                                                                          Section 49
                      4380      4390      4400      4410      4420      4430      4440      4459
            (4369) 4369
SEQ ID NO 11(4369) ATACGTATGGCACCCCTAAAAACTGTATTAGAAAAAAAGTAAGTACTCTGTGAGTGTGAAAAATTCTTAAAGGACACCCTCTTTTACAAACTCA
SEQ ID NO 10(1941) ATACGTATGGCACCCCTAAAAACTGTATTAGAAAAAAA-------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (522) ATACGTATGGCACCCCTAAAAACTGTATTAGAAAAAAA-------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
  Consensus(4369) ATACGTATGGCACCCCTAAAAACTGTATTAGAAAAAAA

                                                                                          Section 50
                      4470      4480      4490      4500      4510      4520      4530      4540      4550
            (4460) 4460
SEQ ID NO 11(4460) CAAAAACAGCCTTTGGAATACCCACCACATGAAGTAGCTGTGTTATTGCTTTCTATATACCTACATCTTGTCTATTATAAAAGACTGGTTTT
SEQ ID NO 10(1977) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
  Consensus(4460)

                                                                                          Section 51
                      4560      4570      4580      4590      4600      4610      4620      4630      4641
            (4551) 4551
SEQ ID NO 11(4551) TGGCAGGTGTGGTGGCTCACACCTGTAATTCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCACCTGAGATCAGGAGTTCAGGACCAGCCT
SEQ ID NO 10(1977) ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
  Consensus(4551)
```

align SEQID#10 against SEQID#11.apr

Section 52

```
                            4650      4660      4670      4680      4690      4700      4710      4720      4732
                  (4642) 4642
SEQ ID NO 11(4642) GATCAATATGGTGAAACCCAGTCTTTACTGAAAAATACAAAAAATCACCCGGGGTGTGGTGACGGGGCGCCTGTAGTCCCAGCTACTCGGGTAGC
SEQ ID NO 10(1977) --------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------------
    Consensus(4642)
```

Section 53

```
                            4740      4750      4760      4770      4780      4790      4800      4810      4823
                  (4733) 4733
SEQ ID NO 11(4733) TGAGGCAGGAGAATCACTTGAACTCAGGAGTCAGAGGTTGCAGTGAGCTGAGATCATGCCACTCCAGCCTGGGTGACAGAGAGCAAGA
SEQ ID NO 10(1977) -----------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------
    Consensus(4733)
```

Section 54

```
                            4830      4840      4850      4860      4870      4880      4890      4900      4914
                  (4824) 4824
SEQ ID NO 11(4824) CTCCATCTCAAAAAAAAAAAAAAAAAAAGACTGGTTTTTCAACAGCTATTCCCACCCCTCTGCATGGAAATATTCACCCAGTCAATTGTTTT
SEQ ID NO 10(1977) -----------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------
    Consensus(4824)
```

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align SEQID#10 against SEQID#11.apr

```
                        4915      4920      4930      4940      4950      4960      4970      4980      4990      5005
            (4915) 4915 CCTAGTTTGGGTAATGGCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGCAAACTATGTTTAGAAGCATGTCTGGGAAATGT
SEQ ID NO 11(4915) CCTAGTTTGGGTAATGGCCCTCTGGGCAGGACTGGAGTGGGGCACACAGGAGAAGCTGCAAACTATGTTTAGAAGCATGTCTGGGAAATGT
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
        Consensus(4915)
```

```
                        5006      5020      5030      5040      5050      5060      5070      5080      5096
            (5006) 5006 CATGCAAGAAAAAGACATATTTAAAGGTAGGCTTTGCATGAATGGAAAAAGGAGAGTAATTCTATGTAGAGCAGCAGAGCCCTCTTACTTGCAGTGA
SEQ ID NO 11(5006) CATGCAAGAAAAAGACATATTTAAAGGTAGGCTTTGCATGAATGGAAAAAGGAGAGTAATTCTATGTAGAGCAGCAGAGCCCTCTTACTTGCAGTGA
SEQ ID NO 10(1977) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
        Consensus(5006)
```

```
                        5097      5110      5120      5130      5140      5150      5160      5170      5187
            (5097) 5097 GAGAAGCAAAAGTGGGGAAGCAAGAGGAATTATGCTTTTCATCAGCCAAATTTGCAGGTAGGAGGATTGGCTCCAGTCATCTTGGCTGAGGC
SEQ ID NO 11(5097) GAGAAGCAAAAGTGGGGAAGCAAGAGGAATTATGCTTTTCATCAGCCAAATTTGCAGGTAGGAGGATTGGCTCCAGTCATCTTGGCTGAGGC
SEQ ID NO 10(1977) -----------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------
        Consensus(5097)
```

align SEQID#10 against SEQID#11.apr

```
                                                                                           Section 58
                        5200      5210      5220      5230      5240      5250      5260            5278
            (5188) 5188 .         .         .         .         .         .         .         .
SEQ ID NO 11(5188) TCATGAAACCAGGTGTAAAGAAGTGGACTAGATTAATTTCATCCATTACAGGAAGAGGAGCCGTGAAAGATAATCCAGAAATCATTGGGA
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
Consensus(5188)

                                                                                           Section 59
                        5290      5300      5310      5320      5330      5340      5350            5369
            (5279) 5279 .         .         .         .         .         .         .         .
SEQ ID NO 11(5279) TTTGATGGTAGAAGGTATTTGGGACTATTCCATTTGAAATGAGAAGGTACCTGACATTCTTGAATTCCTTTCAAGCAAAGGATTAAATT
SEQ ID NO 10(1977) -----------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -----------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -----------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -----------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -----------------------------------------------------------------------------------------
Consensus(5279)

                                                                                           Section 60
                        5380      5390      5400      5410      5420      5430      5440      5450      5460
            (5370) 5370 .         .         .         .         .         .         .         .         .
SEQ ID NO 11(5370) TACCCCATGAGTTGACTCAGAGAAAAAACATAAAAAGTATTGTTGCTCGCTCCAGAGTTTTATCTAACTCATTCTCCACTTCTTATTCCATGATG
SEQ ID NO 10(1977) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
Consensus(5370)
```

align SEQID#10 against SEQID#11.apr

Section 61

```
                          5470      5480      5490      5500      5510      5520      5530      5540      5551
              (5461) 5461
SEQ ID NO 11(5461) AAATGACATAAATGAGGTTTTTATTGTGTTGTGTTGTGTTTCTGGACACAAGGCAAGGTAGCTACCTGGGCAGAGAGCTGTTTTATTTCTC
SEQ ID NO 10(1977) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(5461)
```

Section 62

```
                          5560      5570      5580      5590      5600      5610      5620      5630      5642
              (5552) 5552
SEQ ID NO 11(5552) TATGCCGTGGAGAGAAATTGGTTAATTGGCCATGGAAGGCAGTCATTAAGATGTTCCCATGCGAGTGAACTTTCCAGGGTTCCCAGCTTCT
SEQ ID NO 10(1977) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(5552)
```

Section 63

```
                          5650      5660      5670      5680      5690      5700      5710      5720      5733
              (5643) 5643
SEQ ID NO 11(5643) GCATCCTCCCTGTCCCTCAATTCCATTGTTGGTGATGACAAGTCTCTCCCCATCAGCCTCATGAGCCTCTCTCCTCATTTATTAAAATTTG
SEQ ID NO 10(1977) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
     Consensus(5643)
```

align SEQID#10 against SEQID#11.apr

Section 64

```
                    5740      5750      5760      5770      5780      5790      5800      5810    5824
            (5734) 5734
SEQ ID NO 11(5734) CTTTCAGGAAAAAAATTTTGAAAAATGTGTCCAGTAATGCCTGATTGGCCCCTTATCCTAAAGGCTTAAACTGGAGGAAGGAAGCTAAAACTGAG
SEQ ID NO 10(1977) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
    Consensus(5734)
```

Section 65

```
                    5830      5840      5850      5860      5870      5880      5890      5900   5915
            (5825) 5825
SEQ ID NO 11(5825) AAATCTTGCAAATCATTGAGCCAAAAACGTATTAATAGCAAGATCTATCATTATTGACTAGTATGTGGCAGGCAGTGCCCTTTTATTTAG
SEQ ID NO 10(1977) -------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------------------
    Consensus(5825)
```

Section 66

```
                    5930      5940      5950      5960      5970      5980      5990       6006
            (5916) 5916
SEQ ID NO 11(5916) GCAGGGAGAGTTGATGGGGGGGCGGGGTTCACCACATCTTAAAGAGGTGCTATCTCCCTCCTATATAAATCATGTAAGTCAAGAGAGTAAGG
SEQ ID NO 10(1977) ---------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ---------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ---------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ---------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ---------------------------------------------------------------------------------------------
    Consensus(5916)
```

align SEQID#10 against SEQID#11.apr

```
                              6007        6020        6030        6040        6050        6060        6070        6080        6097
             (6007) 6007
SEQ ID NO 11(6007) AATTGTCTTTGTTTGGTTATATTCAGGGGGATTAGAGTATACAGTAGAAGATCCCAAGAAACCTTGGGATCATTTAGACTAAGAAATGCCA
SEQ ID NO 10(1977) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
       Consensus(6007)
```

```
                              6098        6110        6120        6130        6140        6150        6160        6170        6188
             (6098) 6098
SEQ ID NO 11(6098) ATACCGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGCCGAGGTGGGCGGATCACAAGGTCAGGAGATTGAGACCGTC
SEQ ID NO 10(1977) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
       Consensus(6098)
```

```
                              6189        6200        6210        6220        6230        6240        6250        6260        6279
             (6189) 6189
SEQ ID NO 11(6189) CTGGCTAACGTGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGA
SEQ ID NO 10(1977) ----------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------------------
       Consensus(6189)
```

Section 70

```
                      6280      6290      6300      6310      6320      6330      6340      6350      6360      6370
          (6280) 6280
SEQ ID NO 11(6280) GGCGGAGGCAGGAGAGAATGGTGTGTGAACTCAGGAGGCGGAGCTTGCAGTCAGCCGAGATTGCCCCAATGCCACTCCAGCGCCTGGGCGACAGAACG
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------
Consensus(6280)
```

Section 71

```
                      6371      6380      6390      6400      6410      6420      6430      6440      6450      6461
          (6371) 6371
SEQ ID NO 11(6371) AGACTCCGTCTCAGAACAAACAAAAAGGAAATGCCAATACCAGCAGAAATAGAGCCAAATCATGAACATAAGCTAAACAAATGTTGGCAGT
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
Consensus(6371)
```

Section 72

```
                      6462      6470      6480      6490      6500      6510      6520      6530      6540      6552
          (6462) 6462
SEQ ID NO 11(6462) GTAGCCTAGTGGTTAAGAGAGCAGACTCTTAACTAGAACACTGCCACTCCATGTCCTCCACTGTGGGGTTCTAATTAACC
SEQ ID NO 10(1977) -------------------------------------------------------------------------------
SEQ ID NO 13 (306) -------------------------------------------------------------------------------
SEQ ID NO 16   (1) -------------------------------------------------------------------------------
SEQ ID NO 15 (558) -------------------------------------------------------------------------------
SEQ ID NO 17 (367) -------------------------------------------------------------------------------
Consensus(6462)
```

align SEQID#10 against SEQID#11.apr

Section 73

```
                        6553      6560      6570      6580      6590      6600      6610      6620      6630      6643
              (6553) 6553
SEQ ID NO 11(6553) CCTGTTACTTACCAGTGGCAGTCTTAAGGCATTCCTTAAGTTCGTTGTGCCCCAATTTGTTCATCTGTAGAAGGGGTAGGATGACAGTAGT
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(6553)
```

Section 74

```
                        6644      6650      6660      6670      6680      6690      6700      6710      6720      6734
              (6644) 6644
SEQ ID NO 11(6644) GTTTACTTTATAGGCTTACTGTGAGCATTAAATGAGTTACTACTGTATTTGTAAAGTGCTTAAAATGCTGCTCCAAAAGAGTTTGTTAAAC
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(6644)
```

Section 75

```
                        6735      6740      6750      6760      6770      6780      6790      6800      6810      6825
              (6735) 6735
SEQ ID NO 11(6735) ACTTAAGAACTGATTTACTTGCATCTAAAACTGACAGCTCTCAATAACTGGAAATGATCAAGCATAGGCCCTGGAATATAAGCAGGTCTACA
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(6735)
```

align SEQID#10 against SEQID#11.apr

Section 76

```
                       6826      6840       6850       6860       6870       6880       6890       6900
          (6826) 6826
SEQ ID NO 11(6826) TGAAGGCAAAAATGTTCGTTCTTTTGTTCAGCCCTGTGCCTAGATCAATATCTAGTGATCATGCTCAAGAAATATTGTTGAATGAATCAA    6915
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(6826)
```

Section 77

```
                       6917      6930       6940       6950       6960       6970       6980       6990
          (6917) 6917
SEQ ID NO 11(6917) TGAACCTACCGAGGTAGTTACATAAAAGAGTTCTGCATGAGTACAAATCGGGCAAAGTGACCTCCAAGGAAATTTCCACTTTTAGATTCT    7007
SEQ ID NO 10(1977) ------------------------------------------------------------------------------------------
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------
SEQ ID NO 16   (1) ------------------------------------------------------------------------------------------
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------
      Consensus(6917)
```

Section 78

```
                       7008      7020       7030       7040       7050       7060       7070       7080
          (7008) 7008
SEQ ID NO 11(7008) GTGATTTCCTTAAGGAACTGATAAATTGGTGTGATACAATGTGCCTATATGATTTGAGAAAAACTTATTTCTCTCCCTCT    7098
SEQ ID NO 10(1977) --------------------------------------------------------------------------------T-
SEQ ID NO 13 (306) ----------------------------------------------------------------------------------
SEQ ID NO 16   (1) ----------------------------------------------------------------------------------
SEQ ID NO 15 (558) ----------------------------------------------------------------------------------
SEQ ID NO 17 (367) ----------------------------------------------------------------------------------
      Consensus(7008)
```

align SEQID#10 against SEQID#11.apr

Section 79

```
              (7099) 7099      7110      7120      7130      7140      7150      7160      7170      7189
SEQ ID NO 11(7099) TTTTTCCTTCCTTCCTTCCCTCCCCCTTCCTTCCTTCCCCTCCCCCCTCCCTTCCCTTCCTTCTCTTTTCTTTT
SEQ ID NO 10(1978) --------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------
     Consensus(7099)
```

Section 80

```
              (7190) 7190      7200      7210      7220      7230      7240      7250      7260      7270      7280
SEQ ID NO 11(7190) CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTTTCTTTGTGCCTTT
SEQ ID NO 10(1978) --------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------
     Consensus(7190)
```

Section 81

```
              (7281) 7281      7290      7300      7310      7320      7330      7340      7350      7360      7371
SEQ ID NO 11(7281) CTTTCTTTCTTTCTTTCCTTTCTCTGTCCTTTCCTTTCTTTCTGCCTTTCTTTGCCTTTCTTTGTTTTTCTTTCTTTCCTTTCTTTT
SEQ ID NO 10(1978) --------------------------------------------------------------------------------------
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------
SEQ ID NO 16   (1) --------------------------------------------------------------------------------------
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------
     Consensus(7281)
```

align SEQID#10 against SEQID#11.apr

Section 82

```
                          7380      7390      7400      7410      7420      7430      7440      7450      7462
              (7372) 7372 TTCCTTTAAGCAGACCATGTCTGTTAGATGAATGCCTTTTTCTAGTTAAAAGGTTAAACAGGAAAGTGAAGCACAATTATCAAGGGTCTCC
SEQ ID NO 11(7372)
SEQ ID NO 10(1978) --------
SEQ ID NO 13 (306) --------
SEQ ID NO 16  (1) --------
SEQ ID NO 15 (558) --------
SEQ ID NO 17 (367) --------
  Consensus(7372)
```

Section 83

```
                          7470      7480      7490      7500      7510      7520      7530      7540      7553
              (7463) 7463 AGTCATCTCCACATGTTCTTAATCATTATCTTCTTTTACAGTTTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGCTGCCCT
SEQ ID NO 11(7463)
SEQ ID NO 10(1978) ------------------------------------------TTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGCTGCCCT
SEQ ID NO 13 (306) --------
SEQ ID NO 16  (1) --------------------------TTTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGCTGCCCT
SEQ ID NO 15 (558) --------
SEQ ID NO 17 (367) --------
  Consensus(7463)                                        TTCATATCTCCAGGCCTTTCATTGGGTCAGGTTGGCATTTCGGTGCTGCCCT
```

Section 84

```
                          7560      7570      7580      7590      7600      7610      7620      7630      7644
              (7554) 7554 TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAATCTGCGCAGCAGTTCCTGGGGCGTTTCAGCTGC
SEQ ID NO 11(7554) TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAATCTGCGCAGCAGTTCCTGGGGCGTTTCAGCTGC
SEQ ID NO 10(2027) TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAATCTGCGCAGCAGTTCCTGGGGCGTTTCAGCTGC
SEQ ID NO 13 (306) --------
SEQ ID NO 16 (51) TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAATCTGCGCAGCAGTTCCTGGGGCGTTTCAGCTGC
SEQ ID NO 15 (558) --------
SEQ ID NO 17 (367) --------
  Consensus(7554) TTATGTGTGTGACAAGTGAAAATAAGGAAAGAAAAACTCAAGTGAAGAAATCTGCGCAGCAGTTCCTGGGGCGTTTCAGCTGC
```

align SEQID#10 against SEQID#11.apr

Section 85

| | | 7645 | 7650 | 7660 | 7670 | 7680 | 7690 | 7700 | 7710 | 7720 | 7735 |

SEQ ID NO 11(7645) TTCCCACATCACCTGCCTCATCAAGCCCAGCATCCATCTCCTTGCTCATCTTACACCCTGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 10(2118) TTCCCACATCACCTGCCTCATCAAGCCCAGCATCCATCTCCTTGCTCATCTTACACCCTGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 13 (306) ------------
SEQ ID NO 16 (142) TTCCCACATCACCTGCCTCATCAAGCCCAGCATCCATCTCCTTGCTCATCTTACACCCTGTGTGCATGACAGGCCCACCATTCATTTATC
SEQ ID NO 15 (558) ------------
SEQ ID NO 17 (367) ------------
Consensus(7645) TTCCCACATCACCTGCCTCATCAAGCCCCAGCATCCATCTCCTTGCTCATCTTACACCCTGTGTGCATGACAGGCCCACCATTCATTTATC

Section 86

| | | 7736 | 7750 | 7760 | 7770 | 7780 | 7790 | 7800 | 7810 | 7826 |

SEQ ID NO 11(7736) AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG
SEQ ID NO 10(2209) AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG
SEQ ID NO 13 (306) ------------
SEQ ID NO 16 (233) AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG
SEQ ID NO 15 (558) ------------
SEQ ID NO 17 (367) ------------
Consensus(7736) AGAGCAAAGGCTCTCCCACTATTCTGGTTCACCCCCCTACTTAGCCAGATATACAAGAATATCTGCACGGATGACCTGCCTCACCTGGGAG

Section 87

| | | 7827 | 7840 | 7850 | 7860 | 7870 | 7880 | 7890 | 7900 | 7917 |

SEQ ID NO 11(7827) CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 10(2300) CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 13 (306) ------------
SEQ ID NO 16 (324) CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC
SEQ ID NO 15 (558) ------------
SEQ ID NO 17 (367) ------------
Consensus(7827) CTCAGAGGAGCTCAGATTCCATTACTATCGCACCAAGGACAGATCTCCCAGCAAGAATGACAGAAAAGACTAACTGCCCCAAAATCTCCC

align SEQID#10 against SEQID#11.apr

```
                          7918      7930      7940      7950      7960      7970      7980      7990      8008
              (7918) 7918
SEQ ID NO 11(7918) TTCCAAAAACACAGTTCTCTTAATTCTCCCAAGAAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 10(2391) TTCCAAAAACACAGTTCTCTTAATTCTCCCAAGAAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 13 (306) ----------
SEQ ID NO 16 (415) TTCCAAAAACACAGTTCTCTTAATTCTCCCAAGAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
SEQ ID NO 15 (558) ----------
SEQ ID NO 17 (367) ----------
     Consensus(7918) TTCCAAAAACACAGTTCTCTTAATTCTCCCAAGAAAACCAGAAATGTGACTGCTCACCTCTCTAAGGACCTGAAAAACAACTGGCCATTTCAGCT
```

```
                          8009      8020      8030      8040      8050      8060      8070      8080      8099
              (8009) 8009
SEQ ID NO 11(8009) ATTTAAATCAACTTTAAAAAATCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACTAACCTGCTGACAGCTGCTTCT
SEQ ID NO 10(2482) ATTTAAATCAACTTTAAAAAATCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACCTGCTGACAGCTGCTTCT
SEQ ID NO 13 (306) ----------
SEQ ID NO 16 (506) ATTTAAATCAACTTTAAAAAATCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACCTGCTGACAGCTGCTTCT
SEQ ID NO 15 (558) ----------
SEQ ID NO 17 (367) ----------
     Consensus(8009) ATTTAAATCAACTTTAAAAAATCAACCGCCAAAATATTAAACCATTTGGTTGGAATGATAACATAACCTGCTGACAGCTGCTTCT
```

```
                          8100      8110      8120      8130      8140      8150      8160      8170      8180      8190
              (8100) 8100
SEQ ID NO 11(8100) GCTAGGTGCAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAAATTTACTCATATTCTCAAAGAAA
SEQ ID NO 10(2573) GCTAGGTGCAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAAATTTACTCATATTCTCAAAGAAA
SEQ ID NO 13 (306) ----------
SEQ ID NO 16 (597) GCTAGGTGCAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAAATTTACTCATATTCTCAAAGAAA
SEQ ID NO 15 (558) ----------
SEQ ID NO 17 (367) ----------
     Consensus(8100) GCTAGGTGCAAAAATGGAAAAAAAATACTTCTAATCAGGTCAAATCACCTCTAAATTTACTCATATTCTCAAAGAAA
```

Section 91

```
                              8200      8210      8220      8230      8240      8250      8260      8270      8281
              (8191) 8191
SEQ ID NO 11(8191)  TATATTCAGTCATCATAGTGGGGAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 10(2664)  TATATTCAGTCATCATAGTGGGGAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 13 (306)  ----------------------------------------------------------------------------------------------
SEQ ID NO 16 (688)  TATATTCAGTCATCATAGTGGGGAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
SEQ ID NO 15 (558)  ----------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  ----------------------------------------------------------------------------------------------
   Consensus(8191)  TATATTCAGTCATCATAGTGGGGAAAATAGGATTATTCCTTAGCTCGATAAGCAACCAGAAGTTCTTCCTTCAAATCTTGACATTTAATCAAT
```

Section 92

```
                              8290      8300      8310      8320      8330      8340      8350      8360      8372
              (8282) 8282
SEQ ID NO 11(8282)  CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 10(2755)  CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 13 (306)  -----------------------------------------------------------------------------------------
SEQ ID NO 16 (779)  CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
SEQ ID NO 15 (558)  -----------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  -----------------------------------------------------------------------------------------
   Consensus(8282)  CAGAAATTGATTTTTGGAAAACTGTTCCTATGAAGCTATCTCTGCCTGAAGGATTTTCTTTTACAATCCAGACTATAGAAGGAAATTCA
```

Section 93

```
                              8380      8390      8400      8410      8420      8430      8440      8450      8463
              (8373) 8373
SEQ ID NO 11(8373)  CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAAGGGAAGTTTATGCCTGTTTCTC
SEQ ID NO 10(2846)  CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAAGGGAAGTTTATGCCTGTTTCTC
SEQ ID NO 13 (306)  -----------------------------------------------------------------------------------------
SEQ ID NO 16 (870)  CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAAGGGAAGTTTATGCCTGTTTCTC
SEQ ID NO 15 (558)  -----------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  -----------------------------------------------------------------------------------------
   Consensus(8373)  CAACCTGGACTTTCACCTCCATTGGTCAGAGTTTACTGACCAATTCCCACCTCTGCCTTACACCTAAGGGAAGTTTATGCCTGTTTCTC
```

align SEQID#10 against SEQID#11.apr

Section 94

```
                  8464      8470      8480      8490      8500      8510      8520      8530      8540      8554
              (8464) 8464
SEQ ID NO 11(8464) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 10(2937) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16  (961) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
SEQ ID NO 15  (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) --------------------------------------------------------------------------------------------
  Consensus(8464) TTCACATACCCCAACAGTTACAAATGGTTGTTATTATTAAGCATCTTTATTTTGTGGCCCTCTGATTACATGGTCCCCTAAATTTTGACCT
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Section 95

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                  8555      8560      8570      8580      8590      8600      8610      8620      8630      8645
              (8555) 8555
SEQ ID NO 11(8555) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
SEQ ID NO 10(3028) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16(1052) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
SEQ ID NO 15  (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) --------------------------------------------------------------------------------------------
  Consensus(8555) AATCACAAAAGATTGGTAAAATTTCTTAACATATTAATAATTTGTTTATGTGTCAATATCTTAGCATGTATCAATTAAGACAGAGGTC
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Section 96

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                  8646      8660      8670      8680      8690      8700      8710      8720      8736
              (8646) 8646
SEQ ID NO 11(8646) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
SEQ ID NO 10(3119) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
SEQ ID NO 13  (306) --------------------------------------------------------------------------------------------
SEQ ID NO 16(1143) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
SEQ ID NO 15  (558) --------------------------------------------------------------------------------------------
SEQ ID NO 17  (367) --------------------------------------------------------------------------------------------
  Consensus(8646) TTAACGTTCTCTTTTTGAAAGAGAATATTAGGATTCAGAGATATTAAGAGATTCTCCCAGGATCACAGTTAGGTAACAGAGCTGGATTTA
```

align SEQID#10 against SEQID#11.apr

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                       8737         8750      8760      8770      8780      8790      8800      8810                8827
              (8737) 8737
SEQ ID NO 11(8737)  GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTGTATAACATGTCACGAATTCAGCATAAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 10(3210)  GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTGTATAACATGTCACGAATTCAGCATAAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 16(1234)  GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCTTGTATAACATGTCACGAATTCAGCATAAAAGGGATCTTCAGTGATCTAAGTCA
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(8737)     GTCCAGGTCTGTCTACAGCTCTAACGTATATACACCCTTGTATAACATGTCACGAATTCAGCATAAAAGGGATCTTCAGTGATCTAAGTCA
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                       8828         8840      8850      8860      8870      8880      8890      8900                8918
              (8828) 8828
SEQ ID NO 11(8828)  GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 10(3301)  GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 16(1325)  GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(8828)     GGGGTCAGCAACCTTTTCTAAAAAGGACCAAATAGTAATATTTCAGGCTTTGTGGACCCTATGGTCTCTATCATAACTGTTCAAATCACCA
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                       8919         8930      8940      8950      8960      8970      8980      8990                9009
              (8919) 8919
SEQ ID NO 11(8919)  TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 10(3392)  TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 13 (306)  ------------------------------------------------------------------------------------------
SEQ ID NO 16(1416)  TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTTTAACTCTTTATTTACAAAAGCAG
SEQ ID NO 15 (558)  ------------------------------------------------------------------------------------------
SEQ ID NO 17 (367)  ------------------------------------------------------------------------------------------
Consensus(8919)     TGTAGTGTAAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTTTTAACTCTTTATTTACAAAAGCAG
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align SEQID#10 against SEQID#11.apr

Section 100

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                           9010      9020      9030      9040      9050      9060      9070      9080      9090      9100
              (9010) 9010
SEQ ID NO 11(9010) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGACCCCTGAGAAAATCTTATATTTATGGACAACACATTTAGAGACTGTGACT
SEQ ID NO 10(3483) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGAGAAAATCTTATATTTATGGACAACACATTTAGAGACTGTGACT
SEQ ID NO 13  (306) ------
SEQ ID NO 16(1507) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGAGAAAATCTTATATTTATGGACAACACATTTAGAGACTGTGACT
SEQ ID NO 15  (558) ------
SEQ ID NO 17  (367) ------
Consensus(9010) GTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTCTGACCCCTGAGAAAATCTTATATTTATGGACAACACATTTAGAGACTGTGACT
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Section 101

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                           9101      9110      9120      9130      9140      9150      9160      9170      9180      9191
              (9101) 9101
SEQ ID NO 11(9101) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGGAGTTCTGAAAGCAAGAGCTGTCTGGGTGTTAATGATAAGTGAAAT
SEQ ID NO 10(3574) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGGAGTTCTGAAAGCAAGAGCTGTCTGGGTGTTAATGATAAGTGAAAT
SEQ ID NO 13  (306) ------
SEQ ID NO 16(1598) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGGAGTTCTGAAAGCAAGAGCTGTCTGGGTGTTAATGATAAGTGAAAT
SEQ ID NO 15  (558) ------
SEQ ID NO 17  (367) ------
Consensus(9101) TGCCAAGTAAGAACAAGAGAGCTCTGTCAACTGAAGGTCAAGGCTGGGAGTTCTGAAAGCAAGAGCTGTCTGGGTGTTAATGATAAGTGAAAT
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Section 102

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                           9192      9200      9210      9220      9230      9240      9250      9260      9270      9282
              (9192) 9192
SEQ ID NO 11(9192) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
SEQ ID NO 10(3665) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
SEQ ID NO 13  (306) ------
SEQ ID NO 16(1689) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
SEQ ID NO 15  (558) ------
SEQ ID NO 17  (367) ------
Consensus(9192) AGTTAAAGTTAGAAGATCCCAGTTATAAGAAGCACAAAGAATAATGACCATAGACTCCTGAACAAGAATGTCTGGACTTCTGGCTTAGGCA
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align SEQID#10 against SEQID#11.apr

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                       9283      9290      9300      9310      9320      9330      9340      9350      9360      9373
SEQ ID NO 11(9283) CTCTTGTTGTATGGTCCAGGCCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGAATAAATGAAGATAATAAAAAGTATTTCCTCA
SEQ ID NO 10(3756) CTCTTGTTGTATGGTCCAGGCCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGAATAAATGAAGATAATAAAAAGTATTTCCTCA
SEQ ID NO 13 (306) ------------------------------------------------------------------------------------------------------
SEQ ID NO 16(1780) CTCTTGTTGTATGGTCCAGGCCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGAATAAATGAAGATAATAAAAAGTATTTCCTCA
SEQ ID NO 15 (558) ------------------------------------------------------------------------------------------------------
SEQ ID NO 17 (367) ------------------------------------------------------------------------------------------------------
  Consensus(9283) CTCTTGTTGTATGGTCCAGGCCCAAGTTACCTAATCTCTCCAGGCCCTCCATTTCTTATCATTAAATGAAGAATAAATGAAGATAATAAAAAGTATTTCCTCA
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                       9374      9380      9390      9400      9410      9420      9430      9440      9458
SEQ ID NO 11(9374) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
SEQ ID NO 10(3847) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
SEQ ID NO 13 (306) --------------------------------------------------------------------------------------
SEQ ID NO 16(1871) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
SEQ ID NO 15 (558) --------------------------------------------------------------------------------------
SEQ ID NO 17 (367) --------------------------------------------------------------------------------------
  Consensus(9374) GAGAGCTGTAAGAATAAAACTGAGCTAACCCATGTCAAGCACATAGAATAGGGCCCAGCCTATATTAATTTATCAATAAAATGCCAG
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